SPORTY'S®

WHAT YOU SHOULD KNOW® SERIES

PRIVATE PILOT TRAINING COURSE OUTLINE

(FLIGHT TRAINING SYLLABUS)

Sporty's Academy, Inc.
Clermont County/Sporty's Airport
Batavia, OH 45103

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sportys.com

05/21

STUDENT INFORMATION

Name _____
LAST FIRST MIDDLE

Address _____

City _____ State_____ ZIP_____

Telephone _____ _____ _____
HOME WORK MOBILE

Email _____

Pilot Cert. _____
TYPE CERT # DATE ISSUED

Emergency Contact _____

Phone _____ Relationship _____

ENROLLMENT INFORMATION

Course Title _____

Enrollment Date _____ Approved School Cert # _____

Medical Certificate _____
CLASS DATE ISSUED

Previous School _____ Course Title _____

Training Credit _____
FLIGHT GROUND

Approval of Training Credit _____
CHIEF INSTRUCTOR

Remarks _____

STAGE CHECK / KNOWLEDGE TEST COMPLETION RECORD

Date _____ Stage _____ Ck Pilot _____ Date _____ Stage _____ Ck Pilot _____

Date _____ Stage _____ Ck Pilot _____

Date of Presolo Written _____ Grade _____ Inst. Int. _____

Date of Knowledge Test _____ Grade _____

ENDORSEMENT RECORD

Pre-Training U.S. Citizenship Confirmation or TSA Alien Flight Training Requirements

Completed with Records Date_____ Type _____ Inst. Int. _____

Initial Solo Date_____ A/C Type _____ Inst. Int. _____

90 Day Solo

Date _____ A/C Type _____ Inst. Int. _____

Date _____ A/C Type _____ Inst. Int. _____

Solo Cross-Country

Date _____ A/C Type _____ Inst. Int. _____

Date _____ A/C Type _____ Inst. Int. _____

Date _____ A/C Type _____ Inst. Int. _____

Complex / High Performance Airplane

Date _____ A/C Type _____ Inst. Int. _____

COMPLETION INFORMATION

Completion _____ Transfer _____ Terminated _____
DATE DATE DATE

Records Certified Correct _____
CHIEF INSTRUCTOR

Remarks _____

_____

TRAINING COURSE OUTLINE
PRIVATE PILOT - AIRPLANE

COURSE INTRODUCTION

The Private Pilot Training Course Outline is the syllabus portion of the Sporty's Academy 14 CFR part 141* Approved Private Pilot Certification Course. This outline provides a logical, structured sequence that maximizes learning and meets 14 CFR part 141 training time requirements. Training times must be increased slightly to meet 14 CFR part 61* requirements for students training under those rules. This Training Course Outline also contains ground lessons appropriate to the Private Pilot certificate and supplemental lessons for additional training as necessary.

COURSE CONCEPT

The Private Pilot Training Course Outline utilizes the building-block theory of learning, which recognizes that each item taught must be presented on the basis of previously learned knowledge and skills.

For optimum effectiveness, the ground lessons and viewing of the associated videos should be completed prior to the respective flight lessons. If a considerable length of time has elapsed between the ground lesson and the associated flight, the instructor may wish to conduct a short review of essential material.

COURSE ELEMENTS

The course includes the latest FAA pilot certification requirements and a maximum of student-oriented instruction. The syllabus and support materials not only provide necessary information, but also guide the student through the course in a logical manner.

STUDENT VIDEO PREPARATION

The Sporty's Private Pilot Training Course Outline is based on Sporty's *Complete* Learn To Fly Course, Private Pilot path, online and via apps (iOS, Apple TV, Android, Roku). It is important that the student view all six volumes in the Private Pilot path. For each lesson, there is additional study of specific video sections and this should be accomplished as part of a self-study program. Additional topics may also be assigned by the instructor. To maximize the learning benefit of the videos, the student should also review the additional study sections after completion of the lesson. This is particularly true of any subject areas where the student encountered difficulty.

*14 CFR part 141 and 14 CFR part 61 refer to the appropriate parts of Title 14 of the Code of Federal Regulations. Title 14 covers aeronautics and space. The regulations in this title are often referred to as the Federal Aviation Regulations or FARs.

PREFLIGHT ORIENTATION

Prior to each dual lesson, the instructor must provide the student with a thorough overview of the subject matter to be covered during the lesson. The instructor should select a quiet, private place to brief the student and explain the lesson material. It is important that the instructor define unfamiliar terms and explain the maneuvers and objectives of each lesson.

AIRPLANE PRACTICE

Airplane practice must be conducted so that the student obtains the maximum benefit from each flight. Each flight, where applicable, should begin with a review of previously practiced maneuvers, as deemed necessary by the instructor, before any new maneuvers are introduced.

POSTFLIGHT EVALUATION

The postflight evaluation is equally as important as the preflight orientation. During each postflight session, the student must be thoroughly debriefed. Noticeable advancement should be apparent and recommendations should be made for improvement, where appropriate. This action is a valuable instructional technique because it increases retention. The instructor must also discuss the elements of the next lesson. This prepares the student for the video assignment and will enhance the student's understanding.

LESSON TIMES

Lesson times are specified as a guide to meeting the 14 CFR part 141 training requirements for the Private Pilot. Under the building block concept, however, the student must achieve a specific level of proficiency before starting the next lesson. Lessons may be combined or repeated as needed based on the progress made by the student. It is imperative that the instructor and student periodically review the student's overall progress and determine that the training requirements are consistently being met.

STUDENT STAGE CHECKS AND END-OF-COURSE TESTS

Stage checks measure the student's accomplishments during each stage of training. This procedure provides close supervision of training and another opinion on the student's progress. An examination of the building-block theory of learning will show that it is extremely important for progress and proficiency to be satisfactory before the student enters a new stage of training. Therefore, the next stage should not begin until the student successfully completes the current stage. Failure to follow this progression may defeat the purpose of the stage check and lead to overall course breakdown.

GRADING INSTRUCTIONAL LESSONS

Evaluation is an essential part of the teaching process. The student must be apprised of his or her progress. All instructional flights must be graded in accordance with the following criteria.

Each pilot operation or task will be evaluated at the completion of each instructional lesson.

1 = EXCELLENT	The student demonstrates knowledge or skills with no procedural or mechanical errors and the flight instructor does not provide any assistance
2 = ABOVE AVERAGE	The student demonstrates knowledge or skills that exceed standards. Occasional procedural or mechanical errors are quickly recognized and corrected.
3 = AVERAGE	The student consistently demonstrates knowledge and skills that meet standards with timely recognition of procedural or mechanical errors.
4 = BELOW AVERAGE	The student demonstrates knowledge and skills with difficulty, is slow in recognizing and correcting procedural or mechanical errors.
5 = BELOW ACCEPTABLE STANDARDS	The student does not demonstrate adequate knowledge or skills, is unable to recognize and correct procedural or mechanical errors.
I = INCOMPLETE	The student has not completed the pilot operation listed.

Each instructional lesson will be assigned an overall grade based on the following criteria.

S = SATIS-FACTORY	The content of the lesson has been completed to the standards outlined in the individual lesson Completion Standards.
U = UNSATIS-FACTORY	Indicates that all or part of the lesson content was not completed to the standards outlined in the individual lesson Completion Standards. One or more pilot operations graded as a "5" will require an overall grade of unsatisfactory.
I = INCOMPLETE	Indicates the content of the lesson was not completed, but the pilot operations covered were satisfactory. Pilot operations not completed must be indicated with an "I".

RECORDING SOLO LESSONS

The student will indicate each pilot operation performed on the solo lesson sheet with a check mark. Any pilot operation performed that is not listed must be noted in the remarks section. Cross-country routes shall also be recorded in the remarks section.

The overall solo lesson will be assigned a "grade" based on the following criteria.

SP = STUDENT PRACTICE	All completed solo lessons should be graded as Student Practice.
I = INCOMPLETE	The student did not complete all the pilot operations listed on the lesson sheet.

GRADING NOTES

1. When an instructional lesson is graded unsatisfactory, only those pilot operations graded as "5" must be repeated to standards during the next lesson.

2. When any lesson is graded incomplete, the pilot operations not performed must be completed prior to attempting the pilot operations for the next lesson.

3. Use the "TOTAL IN COURSE: (D/S/G)" lines within the grading box to total the student's dual, solo, and ground instruction times in the course after each lesson.

TSA ALIEN FLIGHT STUDENT PROGRAM RECORDS

The TSA mandated Alien Flight Student Program (AFSP) has a number of compliance and record keeping requirements. Refer to the TSA website for details. The inside front cover of this book has a place to record that you have completed the requirements. That line is there to serve as a reminder to complete the TSA mandates but does not meet the documentation requirements.

Per the TSA, an instructor may elect to use an endorsement in the Student's *and* the Instructor's logbooks to document confirmation of a Student's U.S. Citizenship (not allowed for aliens). The Instructor's copy of the record must be kept for at least 5 years. The recommended text of the endorsement is as follows:

> "I certify that [insert student's name] has presented me a [insert type of document presented, such as a U.S. birth certificate or U.S. passport, and the relevant control or sequential number on the document, if any] establishing that [he or she] is a U.S. citizen or national in accordance with 49 CFR 1552.3(h). [Insert date and instructor's signature and CFI number.]"

For details or clarification, refer to the TSA's website.

INTEGRATION OF REDBIRD'S GIFT FOR PRIVATE PILOT

Redbird's Guided Independent Flight Training (GIFT) for Private Pilot is a simulator-based maneuvers training supplement designed to help you achieve your goals faster and for less money. GIFT allows you to learn, practice, and get feedback on every maneuver required for your pilot's license, at your own pace, using cutting edge educational techniques that push you to reach your best performance level. Each GIFT lesson focuses on a specific flight maneuver or skill required to earn your Private Pilot Certificate and includes:

- A video and written pre-flight briefing
- A simulator mission with an AI-powered flight instructor that provides real-time coaching and corrections on your performance
- A post-flight debrief with objective scoring based on the FAA Airmen Certification Standards
- In-depth post-flight review and trend tracking by uploading your lesson history to Redbird Landing

All delivered in an FAA approved, Redbird Advanced Aviation Training Device.

Sporty's Academy has worked with Redbird to integrate their GIFT Modules into our Private Pilot TCO. The table below will assist in this integration.

TCO Lesson	GIFT Module(s)	
2	1	Introduction Flight
	2	Straight and Level Flight
	4	Normal Turns
	5	Normal Climb
	8	Descent
	10	Taxi
5	13	Slow Flight
	4	Normal Turns
	5	Normal Climb
	11	Normal Takeoff
7	3	Changing A/S in Straight and Level Flight
	6	Best Rate of Climb
	7	Best Angle of Climb
	13	Slow Flight
9	17	Power Off (Landing) Stall
	18	Power On (Takeoff) Stall
	9	Steep Turns
11	17	Power Off (Landing) Stall
	18	Power On (Takeoff) Stall
	11	Normal Takeoff
	20	Normal Landing
	9	Steep Turns
13	14	Rectangular Course
	15	Turns Around a Point
	16	S-Turns
	11	Normal Takeoff
	20	Normal Landing

TCO Lesson	GIFT Module(s)	
15	14	Rectangular Course
	15	Turns Around a Point
	16	S-Turns
	22	Traffic Pattern Operations
	11	Normal Takeoff
	20	Normal Landing
17	22	Traffic Pattern Operations
	23	Go Around
	24	Rejected Takeoff
	25	Emergency Approach and Landing
19	12	Crosswind Takeoff
	21	Crosswind Landing
	23	Go Around
	24	Rejected Takeoff
	25	Emergency Approach and Landing
21	13	Slow Flight
	17	Power Off (Landing) Stall
	18	Power On (Takeoff) Stall
	11	Normal Takeoff
	20	Normal Landing
	12	Crosswind Takeoff
	21	Crosswind Landing
23		GIFT Modules as Needed
25		GIFT Modules as Needed
27		GIFT Modules as Needed
29		GIFT Modules as Needed
31		GIFT Modules as Needed

TCO Lesson	GIFT Module(s)	
32		GIFT Modules as Needed
34	26	Short Field Takeoff
	27	Short Field Landing
	28	Soft Field Takeoff
	29	Soft Field Landing
36	26	Short Field Takeoff
	27	Short Field Landing
	28	Soft Field Takeoff
	29	Soft Field Landing
38		GIFT Modules as Needed
40	32	Cross Country 1 (Short)
42	30	Lost Procedures
	34	Cross Country 3 (Diversion)
44		GIFT Modules as Needed
46	33	Cross Country 2 (Long)
48	19	Basic Instrument Flight
	31	Instrument Climb, Descent, Turns to a Heading
50	19	Basic Instrument Flight
	31	Instrument Climb, Descent, Turns to a Heading
51		GIFT Modules as Needed
52		GIFT Modules as Needed
53		GIFT Modules as Needed
54		GIFT Modules as Needed
56		GIFT Modules as Needed
58		GIFT Modules as Needed
59		GIFT Modules as Needed

PRIVATE PILOT - AIRPLANE
TRAINING COURSE OUTLINE

COURSE OBJECTIVES

The student will obtain the aeronautical skill and experience necessary to meet the requirements for a Private Pilot Certificate for Airplane Single-Engine Land (ASEL).

COURSE COMPLETION STANDARDS

The student must demonstrate through flight tests and school records that the aeronautical knowledge, skill, and experience requirements necessary to obtain a Private Pilot Certificate (ASEL) are accomplished.

Course Time Allocation Table

STAGE		FLIGHT TIME						GROUND TIME
	LESSON	DUAL	SOLO	INST	DUAL X-C	SOLO X-C	NIGHT	DISCUSSION
I	1							1.2
I	2	1.2						0.2
	3							1.2
I	4							1.2
I	5	1.2						0.2
I	6							1.2
I	7	1.2						0.2
I	8							1.2
I	9	1.2						0.2
I	10							1.2
I	11	1.2						0.2
I	12							1.2
I	13	1.2						0.2
I	14							1.2
I	15	1.2						0.2
I	16							1.2
I	17	1.2						0.2
I	18							1.2
I	19	1.2						0.2
I	20							1.2
I	21	1.2						0.2
I	22							1.2
I	23	1.2						0.2
I	24							1.2
I	25	1.2						0.5
I	26							1.2
I - Stage Check	27	1.5						1.5
I	28							1.2
I	29	1.2						0.2
I	30							1.2
I	31	1.2						0.2
I	32	1.0	0.6					0.2
Stage I Totals		19.3	0.6					24.0
II	33							1.2
II	34	1.2						0.2
II	35							1.2
II	36	1.2						0.2
II	37							1.2
II	38		1.0					
II	39							1.2
II	40	1.5						0.2
II	41							1.2
II	42	1.8						0.2
II	43							1.2
II	44		1.5					
II	45							1.2
II	46	1.0						0.2
II - Stage Check	47	1.2						1.5
Stage II Totals		7.9	2.5					10.9
III	48							1.2
III	49							1.2
III	50	1.5		0.5	1.5			0.2
III	51	1.5		0.5	1.5			0.2
III	52		2.0			2.0		
III	53							1.2
III	54	1.0		0.5			1.0	0.2
III	55	2.0		0.5	2.0		2.0	0.2
III	56	1.5		0.5				0.2
III	57							1.2
III	58	1.5		0.5				0.2
III - Stage Check	59	1.2		0.3				1.5
Stage III Totals		10.2	2.0	3.3	5.0	2.0	3.0	7.5
COURSE TOTALS		37.4	5.1	3.3	5.0	2.0	3.0	42.4
FAA 141 REQUIREMENTS		20.0	5.0	3.0	3.0		3.0	35.0
		35 TOTAL						

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STAGE I

STAGE OBJECTIVE:

During this stage, the student becomes familiar with the training airplane and learns how the airplane controls are used to establish and maintain specific flight attitudes. The student will gain the proficiency necessary to solo the training airplane in the traffic pattern and practice area.

STAGE COMPLETION STANDARDS:

At the completion of this stage, the student will have demonstrated proficiency in the maneuvers required for solo flight. Also, the student will have successfully soloed in the local practice area.

STAGE I
LESSON 1
DUAL - GROUND
TRAINING AIRCRAFT

DATE_____ GRADE (Circle One) S U I

STUDENT NAME _____ STUDENT SIGNATURE_____

INSTRUCTOR # _____ INSTRUCTOR SIGNATURE_____

DISCUSSION: (1.2) _____

TOTAL IN COURSE: (D/S/G) _____/____/_____

LESSON OBJECTIVE:

During this lesson, the instructor will introduce the student to the training aircraft and the associated preflight procedures. The student will also be introduced to the basic flight and engine controls.

CONTENT:

Lesson Introduction

_____ Dispatch Procedures
_____ Use of Checklists
_____ Certificates and Documents Location and Use
_____ Aircraft Preflight
_____ Aeronautical Decision Making & Judgment

Lesson Introduction

_____ Recovery Procedures
_____ Engine Controls
_____ Flight Controls
_____ Emergency Equipment & Survival Gear
_____ Aircraft Servicing
_____ Fuel Grades

COMPLETION STANDARDS:

At the completion of this lesson, the student will have a basic knowledge of the training aircraft preflight. The student will be aware of the decision making process and its critical relevance to flight safety. The student will also be able to complete the dispatch procedures to obtain a training aircraft for a flight lesson.

ADDITIONAL STUDY:

FAA-H-8083-3-AFH - Airplane Flying Handbook - Chapter 2
FAA-H-8083-25-PHAK - Pilot's Handbook of Aeronautical Knowledge - Chapter 9
Private Pilot Airman Certification Standards (Refer to Section 1 of the ACS Study Guide, which accompanies Sporty's *Complete* Learn To Fly Course.)
Sporty's *Complete* Learn To Fly Course - Video Vol 1: Segments 1-13

Notes:

STAGE I
LESSON 2
DUAL - LOCAL

DATE_____ ACFT ID_____ GRADE (Circle One) S U I

STUDENT NAME _____ STUDENT SIGNATURE_____

INSTRUCTOR # _____ INSTRUCTOR SIGNATURE_____

FLIGHT TIME: (1.2) _____ DISCUSSION: (0.2) _____

TOTAL IN COURSE: (D/S/G) _____/____/_____

LESSON OBJECTIVE:

During this lesson, the student will become familiar with the engine start procedures, aircraft taxi, the before takeoff checklist, normal takeoffs, normal landings, and proper postflight securing of the aircraft. The student will also be introduced to the functioning of the basic aircraft controls.

CONTENT:

Lesson Introduction

Preflight Orientation
_____ Dispatch Procedures
_____ Preflight Inspection

Flight Orientation
_____ Passenger Briefing
_____ Flight Deck Management
_____ Engine Starting
_____ Radio Communications
_____ Taxiing / Brake Check
_____ Before Takeoff Check
_____ Normal Takeoff & Climb

Lesson Introduction

Flight Orientation
_____ Aircraft Flight Instruments
_____ Climb / Level Off
_____ Straight & Level Flight / Use of Trim
_____ Pitch / Power Coordination
_____ Shallow Banked Turns
_____ Descents / Level Off
_____ Traffic Pattern Operations
_____ Collision Avoidance
_____ Normal Approach & Landing
_____ After Landing Checks
_____ Parking, Securing, & Proper Tie Down
_____ Recovery Procedures

COMPLETION STANDARDS:

At the completion of this lesson, the student will be able to perform an aircraft preflight, an engine start, and be able to taxi the aircraft to the run-up area and perform the before takeoff checks. The student will perform the aircraft control functions with assistance from the instructor.

ADDITIONAL STUDY:

FAA-H-8083-3-AFH - Chapters 2, 3, 5, 7, & 8
FAA-H-8083-25-PHAK - Chapters 6, 8, 9, & 14
Private Pilot Airman Certification Standards
Vol 1: Segments 12-22

Notes: _____

STAGE I
LESSON 3
DUAL - GROUND
AIRPORTS

DATE_____ GRADE (Circle One) S U I

STUDENT NAME _____ STUDENT SIGNATURE_____

INSTRUCTOR # _____ INSTRUCTOR SIGNATURE_____

DISCUSSION: (1.2) _____

TOTAL IN COURSE: (D/S/G) _____/____/_____

LESSON OBJECTIVE:

During this lesson, the student will be introduced to wind direction indicators, airport operations, runway incursion avoidance, and traffic avoidance.

CONTENT:

Lesson Introduction

_____ Wind Direction Indicators
_____ Airport, Runway, and Taxiway Signs
_____ Airport, Runway, and Taxiway Markings
_____ Airport, Runway, and Taxiway Lighting
_____ Radio Calls and Checks
_____ CTAF
_____ Obtaining Airport Advisories

Lesson Introduction

_____ Runway Incursion Avoidance
_____ Use of Aircraft Lighting during Taxi and Traffic Pattern Operations
_____ Collision Avoidance
_____ Scanning for Traffic
_____ Traffic Pattern Operations
_____ Practice Area Operations

COMPLETION STANDARDS:

At the completion of this lesson, the student will have a knowledge of wind indicators, airport operations, and traffic avoidance.

ADDITIONAL STUDY:

AC 91-73 - Parts 91 and 135 Single Pilot, Flight School Procedures During Taxi Operations
FAA-H-8083-3-AFH - Chapters 1, 2, 5, 7, & 8
FAA-H-8083-25-PHAK - Chapters 13 & 14
FAR - 14 CFR Aviation Regulations
AIM - Aeronautical Information Manual - Chapter 2
Vol 1: Segments 3-20
Vol 2: Segment 14
Vol 3: Segment 16
Vol 5: Segment 7
Vol 6: Segments 3 & 6

Notes: _____

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STAGE I
LESSON 4
DUAL - GROUND
AERODYNAMICS

DATE_____ GRADE (Circle One) S U I

STUDENT NAME _____ STUDENT SIGNATURE_____

INSTRUCTOR # _____ INSTRUCTOR SIGNATURE_____

DISCUSSION: (1.2) _____

TOTAL IN COURSE: (D/S/G) _____/____/_____

LESSON OBJECTIVE:

During this lesson, the student will be introduced to the four forces of flight, forces occurring on an aircraft not in straight and level flight, and the effects of flaps.

CONTENT:

Lesson Introduction

_____ 4 Forces of Flight
_____ Airframe Construction (Components)
_____ Three Axes of Flight
_____ Forces Acting on a Climbing Airplane
_____ Angle of Attack

Lesson Introduction

_____ Forces Acting on a Descending Airplane
_____ Forces Acting on a Turning Airplane
_____ Effects of Flaps
_____ Critical Angle of Attack / Stalls
_____ Spin Awareness

COMPLETION STANDARDS:

At the completion of this lesson, the student will have a knowledge of the four forces of flight, the basic components of aircraft construction, forces acting on aircraft when not in straight and level flight, and the effect of flaps.

ADDITIONAL STUDY:

FAA-H-8083-3-AFH - Chapter 4
FAA-H-8083-25-PHAK - Chapters 5 & 6
Vol 1: Segments 21-26
Vol 2: Segments 5-6

Notes:

STAGE I
LESSON 5
DUAL - LOCAL

DATE_____ ACFT ID_____ GRADE (Circle One) S U I

STUDENT NAME _____ STUDENT SIGNATURE_____

INSTRUCTOR # _____ INSTRUCTOR SIGNATURE_____

FLIGHT TIME: (1.2) _____ DISCUSSION: (0.2) _____

TOTAL IN COURSE: (D/S/G) _____/____/_____

LESSON OBJECTIVE:

During this lesson, the student will be introduced to flying the aircraft at various airspeeds and performing imminent stalls and recoveries.

CONTENT:

Lesson Review

_____ Normal Takeoff & Climb
_____ Normal Approach & Landing
_____ Flight Deck Management

Lesson Introduction

_____ Maneuvering during Slow Flight
_____ Power-Off Stalls (Imminent)
_____ Power-On Stalls (Imminent)
_____ Stall Awareness
_____ Spin Awareness
_____ Use of Flaps
_____ Traffic Pattern Operations
_____ Practice Area Operations

COMPLETION STANDARDS:

The student should be able to perform slow flight, imminent stalls, and stall recoveries with the instructor's assistance.

ADDITIONAL STUDY:

FAA-H-8083-3-AFH - Chapters 4, 5, 7, & 8
FAA-H-8083-25-PHAK - Chapters 5 & 6
Private Pilot Airman Certification Standards
Vol 1: Segments 19-26

Notes: _____

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STAGE I
LESSON 6
DUAL - GROUND
AIRPLANE STABILITY
LOAD FACTORS
WAKE TURBULENCE

DATE_____ GRADE (Circle One) S U I

STUDENT NAME _____ STUDENT SIGNATURE_____

INSTRUCTOR # _____ INSTRUCTOR SIGNATURE_____

DISCUSSION: (1.2) _____

TOTAL IN COURSE: (D/S/G) _____/____/_____

LESSON OBJECTIVE:

During this lesson, the student will be introduced to static and dynamic stability, the dihedral effect, load factors, ground effect, wing tip vortices, and wake turbulence & avoidance procedures.

CONTENT:

Lesson Introduction

_____ Static Stability (Positive / Negative)
_____ Dynamic Stability (Positive / Negative)
_____ Dihedral Effect
_____ Ground Effect

Lesson Introduction

_____ Wing Tip Vortices
_____ Wake Turbulence & Avoidance
_____ Load Factor & Gusts

COMPLETION STANDARDS:

At the completion of this lesson, the student will have a knowledge of static and dynamic stability, the dihedral effect, load factors, ground effect, wing tip vortices, and wake turbulence & avoidance procedures.

ADDITIONAL STUDY:

FAA-H-8083-3-AFH - Chapter 5
FAA-H-8083-25-PHAK - Chapters 5 & 6
AIM - Chapter 7
Vol 3: Segment 19

Notes: _____

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STAGE I
LESSON 7
DUAL - LOCAL

DATE_____ ACFT ID_____ GRADE (Circle One) S U I

STUDENT NAME _____ STUDENT SIGNATURE_____

INSTRUCTOR # _____ INSTRUCTOR SIGNATURE_____

FLIGHT TIME: (1.2) _____ DISCUSSION: (0.2) _____

TOTAL IN COURSE: (D/S/G) _____/____/_____

LESSON OBJECTIVE:

During this lesson, the student will be introduced to constant airspeed climbs and descents and airspeed transitions.

CONTENT:

Lesson Review

_____ Maneuvering during Slow Flight
_____ Power-Off Stalls (Imminent)
_____ Power-On Stalls (Imminent)
_____ Practice Area Operations
_____ Flight Deck Management

Lesson Introduction

_____ Constant Airspeed Climbs
_____ Constant Airspeed Descents
_____ Airspeed Transitions
_____ Climbs to Altitudes
_____ Descents to Altitudes
_____ Turns to Headings (Medium Bank)
_____ Flight at Low Cruise Airspeeds

COMPLETION STANDARDS:

At the completion of this lesson, the student will be able to execute straight and level flight, climbs, descents, and turns without assistance from the flight instructor. The student will hold assigned altitudes ±150 feet, heading ±20°, and airspeeds ±15 knots. Slow flight will be performed at an airspeed at which any further increase in angle of attack, increase in load factor, or reduction in power, would result in a stall warning (e.g., aircraft buffet, stall horn, etc.) and will be maintained +20, -0 knots. Stalls will be performed in both straight and level and turning flight. The student will have an awareness of the need for proper aircraft trimming during airspeed transitions.

ADDITIONAL STUDY:

FAA-H-8083-3-AFH - Chapter 4
FAA-H-8083-25-PHAK - Chapters 5, 6, & 11
Private Pilot Airman Certification Standards
Vol 1: Segments 24-26
Vol 2: Segments 1-7

Notes: _____

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_____

_____

_____

STAGE I
LESSON 8
DUAL - GROUND
AIRCRAFT
PERFORMANCE

DATE_____ GRADE (Circle One) S U I

STUDENT NAME _____ STUDENT SIGNATURE_____

INSTRUCTOR # _____ INSTRUCTOR SIGNATURE_____

DISCUSSION: (1.2) _____

TOTAL IN COURSE: (D/S/G) _____/____/_____

LESSON OBJECTIVE:

During this lesson, the student will be introduced to the takeoff data card, factors that affect performance, airplane weight and balance, basic performance charts, and wind calculations.

CONTENT:

Lesson Introduction

_____ Factors Affecting Performance
_____ Takeoff Data Card
_____ Airplane Weight and Balance

Lesson Introduction

_____ Basic Performance Charts
_____ Headwind / Crosswind Calculations

COMPLETION STANDARDS:

At the completion of this lesson, the student will have a knowledge of the takeoff data card, factors that affect performance, how to calculate and interpret an airplane weight and balance, how to use basic performance charts, and how to do headwind / crosswind calculations.

ADDITIONAL STUDY:

FAA-H-8083-3-AFH - Chapters 3 & 5
FAA-H-8083-25-PHAK - Chapters 5, 10, & 11
AFM/POH - Airplane Flight Manual / Pilot Operating Handbook
Vol 3: Segments 14, 16-19
Vol 5: Segment 5
Vol 6: Segment 7

Notes:

STAGE I
LESSON 9
DUAL - LOCAL

DATE_____ ACFT ID_____ GRADE (Circle One) S U I

STUDENT NAME _____ STUDENT SIGNATURE_____

INSTRUCTOR # _____ INSTRUCTOR SIGNATURE_____

FLIGHT TIME: (1.2) _____ DISCUSSION: (0.2) _____

TOTAL IN COURSE: (D/S/G) _____/____/_____

LESSON OBJECTIVE:

During this lesson, the student will be introduced to power-off and power-on full stalls as well as steep turns.

CONTENT:

Lesson Review

_____ Constant Airspeed Climbs
_____ Constant Airspeed Descents
_____ Stall Awareness
_____ Spin Awareness

Lesson Introduction

_____ Power-Off Stalls (Full) w/ & w/o Flaps
_____ Power-On Stalls (Full) w/o Flaps
_____ Steep Turns

COMPLETION STANDARDS

The student will perform power-off and power-on full stalls and recoveries, as well as steep turns with minimal instructor assistance. The student shall maintain the assigned heading ±15° and the required airspeed ±10 knots during the constant airspeed climbs and descents.

ADDITIONAL STUDY:

FAA-H-8083-3-AFH - Chapter 4
FAA-H-8083-25-PHAK - Chapter 5
Private Pilot Airman Certification Standards
Vol 1: Review Segments as Needed
Vol 2: Segments 7-10
Vol 3: Segment 3

Notes: _____

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STAGE I
LESSON 10
DUAL - GROUND
WEATHER

DATE_____ GRADE (Circle One) S U I

STUDENT NAME _____ STUDENT SIGNATURE_____

INSTRUCTOR # _____ INSTRUCTOR SIGNATURE_____

DISCUSSION: (1.2) _____

TOTAL IN COURSE: (D/S/G) _____/____/_____

LESSON OBJECTIVE:

During this lesson, the student will be introduced to the atmosphere and factors influencing aviation weather.

CONTENT:

Lesson Introduction

_____ The Atmosphere
_____ Pressure
_____ Wind
_____ Moisture
_____ Humidity
_____ Stability

Lesson Introduction

_____ Clouds
_____ Air Masses
_____ Fronts
_____ Frontal Weather
_____ Thunderstorms
_____ Other Hazardous Weather Conditions

COMPLETION STANDARDS:

At the completion of this lesson, the student will have a knowledge of basic atmospheric processes.

ADDITIONAL STUDY:

AC 00-6-AvWx - Aviation Weather
AC 00-45-AvWxSvc - Aviation Weather Services
FAA-H-8083-25-PHAK - Chapter 12
Vol 3: Segments 7-8
Vol 4: Segment 12
Vol 5: Segment 11

Notes: _____

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STAGE I
LESSON 11
DUAL - LOCAL

DATE_____ ACFT ID_____ GRADE (Circle One) S U I

STUDENT NAME _____ STUDENT SIGNATURE_____

INSTRUCTOR # _____ INSTRUCTOR SIGNATURE_____

FLIGHT TIME: (1.2) _____ DISCUSSION: (0.2) _____

TOTAL IN COURSE: (D/S/G) _____/____/_____

LESSON OBJECTIVE:

During this lesson, the student will be introduced to constant rate climbs and descents.

CONTENT:

Lesson Review

_____ Maneuvering during Slow Flight
_____ Normal Takeoffs & Landings
_____ Steep Turns
_____ Power-Off Stalls (Full)
_____ Power-On Stalls (Full)

Lesson Introduction

_____ Constant Rate Climbs
_____ Constant Rate Descents

COMPLETION STANDARDS:

The student will perform constant rate climbs and descents with minimal assistance from the instructor. Slow flight will be performed at an airspeed at which any further increase in angle of attack, increase in load factor, or reduction in power, would result in a stall warning, and will be maintained +20, -0 knots. Stalls will be performed in both straight and level and turning flight.

ADDITIONAL STUDY:

FAA-H-8083-3-AFH - Chapter 4
FAA-H-8083-25-PHAK - Chapter 5
Private Pilot Airman Certification Standards
Vol 1: Segment 19; Review Other Segments as Needed
Vol 2: Segments 1-11
Vol 3: Segment 3

Notes: _____

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STAGE I
LESSON 12
DUAL - GROUND
WEATHER REPORTS
& FORECASTS

DATE_____ GRADE (Circle One) S U I

STUDENT NAME _____ STUDENT SIGNATURE_____

INSTRUCTOR # _____ INSTRUCTOR SIGNATURE_____

DISCUSSION: (1.2) _____

TOTAL IN COURSE: (D/S/G) _____/____/_____

LESSON OBJECTIVE:

During this lesson, the student will be introduced to aviation weather charts and reports, and how to obtain a weather briefing.

CONTENT:

Lesson Introduction

_____ Surface Analysis Charts
_____ Low-Level Prognostic Charts
_____ Graphical Forecasts for Aviation
_____ TAFs
_____ METARs

Lesson Introduction

_____ Winds and Temperatures Aloft
_____ Pilot Reports
_____ Obtaining a Weather Briefing FSS / Online
_____ Standard / Abbreviated / Outlook Briefings
_____ AWOS / ASOS Reports

COMPLETION STANDARDS:

At the completion of this lesson, the student will have a knowledge of aviation weather charts and reports, and the proper way to obtain a weather briefing.

ADDITIONAL STUDY:

FAA-H-8083-25-PHAK - Chapter 13
AC 00-6-AvWx
AC 00-45-AvWxSvc
AIM - Chapter 7
Vol 3: Segments 9-12
Vol 4: Segment 14
Vol 5: Segment 13 & 20

Notes:

STAGE I
LESSON 13
DUAL - LOCAL

DATE_____ ACFT ID_____ GRADE (Circle One) S U I

STUDENT NAME _____ STUDENT SIGNATURE_____

INSTRUCTOR # _____ INSTRUCTOR SIGNATURE_____

FLIGHT TIME: (1.2) _____ DISCUSSION: (0.2) _____

TOTAL IN COURSE: (D/S/G) _____/____/_____

LESSON OBJECTIVE:

During this lesson, the student will be introduced to ground reference maneuvers.

CONTENT:

Lesson Review

_____ Traffic Pattern Operations
_____ Normal Takeoffs & Landings

Lesson Introduction

_____ Runway Incursion Avoidance
_____ Wind Effect on Ground Track
_____ Rectangular Course
_____ S-Turns (across a Road)
_____ Turns around a Point

COMPLETION STANDARDS:

The student will be able to fly specific ground tracks while maintaining airspeed ±10 knots and altitude ±150 feet. Airspeed will be maintained at V_Y +15, -10 knots during the climb after a normal takeoff. Recommended approach airspeed will be maintained +10, -5 knots and the touchdown will be beyond and within 750 feet of a designated point of landing.

ADDITIONAL STUDY:

FAA-H-8083-3-AFH - Chapters 1, 5, 6, 7, & 8
FAA-H-8083-25-PHAK - Chapter 14
Private Pilot Airman Certification Standards
Vol 2: Segment 1; Review Other Segments as Needed
Vol 3: Segment 1

Notes: _____

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STAGE I
LESSON 14
DUAL - GROUND
WEATHER REPORTS
& FORECASTS

DATE_____ GRADE (Circle One) S U I

STUDENT NAME _____ STUDENT SIGNATURE_____

INSTRUCTOR # _____ INSTRUCTOR SIGNATURE_____

DISCUSSION: (1.2) _____

TOTAL IN COURSE: (D/S/G) _____/____/_____

LESSON OBJECTIVE:

During this lesson, the student will be introduced to radar reports, severe weather reports and forecasts, NOTAMs, AIRMETs, and SIGMETs. The student will also be introduced to proper decision making relative to obtaining and analyzing weather data.

CONTENT:

Lesson Introduction

_____ Radar Wx Reports
_____ Severe Wx Reports and Forecasts
_____ AIRMETs
_____ SIGMETs / Convective SIGMETs
_____ NOTAMs

Lesson Introduction

_____ Wind Shear Reports
_____ Wind Shear Recognition and Avoidance
_____ Weather Related Aeronautical Decision Making & Judgment

COMPLETION STANDARDS:

At the completion of this lesson, the student will have a knowledge of radar weather reports, severe weather reports and forecasts, NOTAMs, AIRMETs, and SIGMETs, and be able to make an appropriate decision regarding a flight based upon the relevant weather data.

ADDITIONAL STUDY:

FAA-H-8083-25-PHAK - Chapter 13
AC 00-6-AvWx
AC 00-45-AvWxSvc
AIM - Chapter 7
Vol 3: Segments 9-12
Vol 4: Segment 14
Vol 5: Segments 13 & 20

Notes:

STAGE I
LESSON 15
DUAL - LOCAL

DATE_____ ACFT ID_____ GRADE (Circle One) S U I

STUDENT NAME _____ STUDENT SIGNATURE_____

INSTRUCTOR # _____ INSTRUCTOR SIGNATURE_____

FLIGHT TIME: (1.2) _____ DISCUSSION: (0.2) _____

TOTAL IN COURSE: (D/S/G) _____/____/_____

LESSON OBJECTIVE:

During this lesson, the student will review ground reference maneuvers, maneuvering during slow flight, stalls, and steep turns.

CONTENT:

Lesson Review

_____ Rectangular Course
_____ S-Turns
_____ Turns around a Point
_____ Maneuvering during Slow Flight
_____ Power-On & Power-Off Stalls

Lesson Review

_____ Steep Turns
_____ Traffic Pattern Operations
_____ Runway Incursion Avoidance
_____ Normal Takeoffs & Landings

COMPLETION STANDARDS:

The student will be able to fly specific ground tracks while maintaining airspeed ±10 knots and altitude ±150 feet. The student will be able to perform slow flight, stalls, constant altitude turns, and normal and crosswind takeoffs and landings without instructor assistance. Slow flight will be performed at an airspeed at which any further increase in angle of attack, increase in load factor, or reduction in power, would result in a stall warning, and will be maintained +20, -0 knots. Stalls will be performed in both straight and level and turning flight. Steep turns will be performed at 45° of bank ±5°, while maintaining altitude ±200 feet and with the roll out on the assigned heading ±15°. Airspeed will be maintained at V_Y +15, -10 knots during the climb after a normal takeoff. Recommended approach airspeed will be maintained +10, -5 knots and the touchdown will be beyond and within 750 feet of a designated point of landing.

ADDITIONAL STUDY:

FAA-H-8083-3-AFH - Chapters 6 & 7
FAA-H-8083-25-PHAK - Chapter 14
Private Pilot Airman Certification Standards
Vol 2: Review Segments as Needed
Vol 3: Segments 3 & 16

Notes: _____

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STAGE I
LESSON 16
DUAL - GROUND
EMERGENCIES

DATE_____ GRADE (Circle One) S U I

STUDENT NAME _____ STUDENT SIGNATURE_____

INSTRUCTOR # _____ INSTRUCTOR SIGNATURE_____

DISCUSSION: (1.2) _____

TOTAL IN COURSE: (D/S/G) _____/____/_____

LESSON OBJECTIVE:

During this lesson, the student will be introduced to emergency procedures.

CONTENT:

Lesson Introduction

_____ Emergency Procedures (AFM/POH)

COMPLETION STANDARDS:

At the completion of this lesson, the student will have a knowledge of the emergency procedures listed in the appropriate AFM/POH.

ADDITIONAL STUDY:

FAA-H-8083-3-AFH - Chapter 17
AFM/POH
FAR
AIM - Chapter 6
Vol 3: Segments 5-6

Notes:

STAGE I
LESSON 17
DUAL - LOCAL

DATE_____ ACFT ID_____ GRADE (Circle One) S U I

STUDENT NAME _____ STUDENT SIGNATURE_____

INSTRUCTOR # _____ INSTRUCTOR SIGNATURE_____

FLIGHT TIME: (1.2) _____ DISCUSSION: (0.2) _____

TOTAL IN COURSE: (D/S/G) _____/____/_____

LESSON OBJECTIVE:

During this lesson, the student will be introduced to rejected takeoffs and go-around procedures.

CONTENT:

Lesson Review

_____ Runway Incursion Avoidance
_____ Traffic Pattern Operations
_____ Normal Takeoff & Climb
_____ Normal Approach & Landing

Lesson Introduction

_____ Wake Turbulence Avoidance
_____ Systems & Equipment Malfunctions
_____ Rejected Takeoffs
_____ Go-Around / Rejected Landing
_____ Emergency Approach & Landing

COMPLETION STANDARDS:

The student will be familiar with the procedures used during system & equipment malfunctions, wake turbulence avoidance, rejected takeoffs, go-arounds, and emergency approaches and landings. The student will be able to perform rejected takeoffs and go-arounds with the instructor's assistance. Airspeed will be maintained at V_Y +15, -5 knots during the climb after a normal takeoff. Recommended approach airspeed will be maintained +10, -5 knots and the touchdown will be beyond and within 750 feet of a designated point of landing.

ADDITIONAL STUDY:

FAA-H-8083-3-AFH - Chapters 1, 5, 8, & 17
FAA-H-8083-25-PHAK - Chapters 2, 5, & 14
AIM - Chapter 7
Private Pilot Airman Certification Standards
Vol 2: Segments 11-15
Vol 3: Segments 4 & 16

Notes: _____

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STAGE I
LESSON 18
DUAL - GROUND
FAR / AIM
NTSB 830 / ACS
LOGBOOKS

DATE_____ GRADE (Circle One) S U I

STUDENT NAME _____ STUDENT SIGNATURE_____

INSTRUCTOR # _____ INSTRUCTOR SIGNATURE_____

DISCUSSION: (1.2) _____

TOTAL IN COURSE: (D/S/G) _____/____/_____

LESSON OBJECTIVE:

During this lesson, the student will be introduced to single-pilot resource management, proper decision-making, FARs, NTSB 830, the use of the AIM, pilot and aircraft logbooks, and other publications.

CONTENT:

Lesson Introduction

_____ 14 CFR Part 1
_____ 14 CFR Part 61 Pvt/Student Limitations
_____ 14 CFR Part 67
_____ 14 CFR Part 91
_____ 14 CFR Part 141
_____ NTSB 830
_____ AIM
_____ Pilot Logbooks / Aircraft Logbooks
_____ Airman Certification Standards

Lesson Introduction

_____ FAA Advisory Circulars
_____ Single-Pilot Resource Management
_____ Aeronautical Decision Making & Judgment
_____ Risk Management
_____ Task Management
_____ Situational Awareness
_____ Controlled Flight into Terrain Awareness
_____ Automation Management

COMPLETION STANDARDS:

At the completion of this lesson, the student will have a knowledge of single-pilot resource management, proper decision making, FARs applicable to student and private pilots in a 61 or 141 program, NTSB 830, the use of the AIM, pilot and aircraft logbooks, and other publications.

ADDITIONAL STUDY:

FAA-H-8083-3-AFH - Chapters 2 & 4
FAA-H-8083-25-PHAK - Chapter 2
FAR
AIM - Introduction & Table of Contents
Private Pilot Airman Certification Standards
Vol 1: Segments 1-2
Vol 3: Segments 21-22
Vol 4: Segment 3
Vol 5: Segment 10
Vol 6: Segment 1

Notes: _____

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STAGE I
LESSON 19
DUAL - LOCAL

DATE_____ ACFT ID_____ GRADE (Circle One) S U I

STUDENT NAME _____ STUDENT SIGNATURE_____

INSTRUCTOR # _____ INSTRUCTOR SIGNATURE_____

FLIGHT TIME: (1.2) _____ DISCUSSION: (0.2) _____

TOTAL IN COURSE: (D/S/G) _____/____/_____

LESSON OBJECTIVE:

The student will be introduced to slips and crosswind takeoffs and landings. The effect of wind on ground track will be reviewed.

CONTENT:

Lesson Review

_____ Normal Takeoffs & Landings
_____ Rejected Takeoff
_____ Go-Around / Rejected Landing
_____ Traffic Pattern Operations
_____ Wind Effect on Ground Track

Lesson Introduction

_____ Aeronautical Decision Making & Judgment
_____ Crosswind Takeoff & Climb
_____ Side Slip
_____ Forward Slip
_____ Side Slip to a Landing
_____ Crosswind Approach & Landing
_____ Forward Slip to a Landing
_____ No Flap Landing

COMPLETION STANDARDS:

The student will be able to perform slips, crosswind takeoffs and landings, and correct for wind effects with minimal instructor assistance. Airspeed will be maintained at V_Y +15, -5 knots during the climb after a normal takeoff or go-around. Recommended approach airspeed will be maintained +10, -5 knots and the touchdown will be beyond and within 750 feet of a designated point of landing.

ADDITIONAL STUDY:

FAA-H-8083-3-AFH - Chapters 5, 7, & 8
FAA-H-8083-25-PHAK - Chapter 2
Private Pilot Airman Certification Standards
Vol 2: Segment 13
Vol 3: Segments 1-4

Notes:

STAGE I
LESSON 20
DUAL - GROUND
AIRCRAFT SYSTEMS

DATE_____ GRADE (Circle One) S U I

STUDENT NAME _____ STUDENT SIGNATURE_____

INSTRUCTOR # _____ INSTRUCTOR SIGNATURE_____

DISCUSSION: (1.2) _____

TOTAL IN COURSE: (D/S/G) _____/____/_____

LESSON OBJECTIVE:

During this lesson, the student will be introduced to fuel, electrical, environmental, and wing flap systems.

CONTENT:

Lesson Introduction

_____ Fuel System
_____ Electrical System
_____ Environmental System

Lesson Introduction

_____ Primary Flight Controls & Trim Systems
_____ Leading Edge Devices & Spoilers
_____ Wing Flap System

COMPLETION STANDARDS:

At the completion of this lesson, the student will have a knowledge of fuel, electrical, environmental, and wing flap systems.

ADDITIONAL STUDY:

FAA-H-8083-25-PHAK - Chapters 11 & 14
AFM/POH
Vol 1: Segments 4 & 10
Vol 3: Segment 23

Notes:

STAGE I
LESSON 21
DUAL - LOCAL

DATE_____ ACFT ID_____ GRADE (Circle One) S U I

STUDENT NAME _____ STUDENT SIGNATURE_____

INSTRUCTOR # _____ INSTRUCTOR SIGNATURE_____

FLIGHT TIME: (1.2) _____ DISCUSSION: (0.2) _____

TOTAL IN COURSE: (D/S/G) _____/____/_____

LESSON OBJECTIVE:

During this lesson, slow flight, stalls, and normal and crosswind takeoffs and landings will be reviewed.

CONTENT:

Lesson Review

_____ Maneuvering during Slow Flight
_____ Power-Off Stalls
_____ Power-On Stalls

Lesson Review

_____ Traffic Pattern Operations
_____ Normal Takeoffs & Landings
_____ Crosswind Takeoffs & Landings

COMPLETION STANDARDS:

The student will be able to perform slow flight, stalls, stall recoveries, and crosswind takeoffs and landings with minimal assistance from the instructor. Slow flight will be performed at an airspeed at which any further increase in angle of attack, increase in load factor, or reduction in power, would result in a stall warning, and will be maintained +15, -0 knots. Stalls will be performed in both straight and level and turning flight. Airspeed will be maintained at V_Y +15, -5 knots during the climb after a normal takeoff. Recommended approach airspeed will be maintained +10, -5 knots and the touchdown will be beyond and within 750 feet of a designated point of landing.

ADDITIONAL STUDY:

FAA-H-8083-3-AFH - Chapters 4, 5, & 8
FAA-H-8083-25-PHAK - Chapters 5 & 14
AIM - Chapter 4
Private Pilot Airman Certification Standards
Vol 1: Review Segments as Needed
Vol 2: Review Segments as Needed

Notes:

STAGE I
LESSON 22
DUAL - GROUND
AIRCRAFT SYSTEMS

DATE_____ GRADE (Circle One) S U I

STUDENT NAME _____ STUDENT SIGNATURE_____

INSTRUCTOR # _____ INSTRUCTOR SIGNATURE_____

DISCUSSION: (1.2) _____

TOTAL IN COURSE: (D/S/G) _____/____/_____

LESSON OBJECTIVE:

During this lesson, the student will be introduced to additional aircraft systems, the aircraft equipment list, and dealing with inoperative equipment.

CONTENT:

Lesson Introduction

_____ Powerplant
_____ Oil System
_____ Ignition System
_____ Carburetor Heat / Air Induction System
_____ Propeller

Lesson Introduction

_____ Hydraulic System
_____ Landing Gear System
_____ Aircraft Equipment List
_____ VFR Required Equipment
_____ Inoperative Equipment

COMPLETION STANDARDS:

At the completion of this lesson, the student will have a knowledge of aircraft systems, the aircraft equipment list, and dealing with inoperative equipment.

ADDITIONAL STUDY:

FAA-H-8083-25-PHAK - Chapters 3 & 7
AFM/POH
FAR
Vol 1: Segments 8-9
Vol 2: Segments 3-4
Vol 6: Segment 13

Notes: _____

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STAGE I
LESSON 23
DUAL - LOCAL

DATE_____ ACFT ID_____ GRADE (Circle One) S U I

STUDENT NAME _____ STUDENT SIGNATURE_____

INSTRUCTOR # _____ INSTRUCTOR SIGNATURE_____

FLIGHT TIME: (1.2) _____ DISCUSSION: (0.2) _____

TOTAL IN COURSE: (D/S/G) _____/____/_____

LESSON OBJECTIVE:

During this lesson, the instructor will review takeoffs and landings in preparation for solo flight.

CONTENT:

Lesson Review

_____ Runway Incursion Avoidance
_____ Crosswind Takeoff & Climb
_____ Normal Takeoff & Climb
_____ Traffic Pattern Operations
_____ Engine Starting
_____ Radio Communications
_____ Taxiing
_____ Before Takeoff Check

Lesson Review

_____ Normal Approach & Landing
_____ Side Slip to a Landing
_____ Crosswind Approach & Landing
_____ Forward Slip to a Landing
_____ No Flap Landing
_____ Go-Around / Rejected Landing
_____ After Landing Checks
_____ Parking, Securing, & Proper Tie Down

COMPLETION STANDARDS:

Takeoffs, landings, and go-arounds should be performed without instructor assistance. Airspeed will be maintained at V_Y +15, -5 knots during the climb after a normal takeoff. Recommended approach airspeed will be maintained +10, -5 knots and the touchdown will be beyond and within 750 feet of a designated point of landing.

ADDITIONAL STUDY:

FAA-H-8083-3-AFH - Chapters 2, 5, 7, & 8
FAA-H-8083-25-PHAK - Chapter 14
AIM - Chapter 4
Private Pilot Airman Certification Standards
Vol 1: Review Segments as Needed
Vol 2: Review Segments as Needed
Vol 3: Review Segments as Needed

Notes: _____

STAGE I
LESSON 24
DUAL - GROUND
AIRCRAFT SYSTEMS MAINTENANCE

DATE_____ GRADE (Circle One) S U I

STUDENT NAME _____ STUDENT SIGNATURE_____

INSTRUCTOR # _____ INSTRUCTOR SIGNATURE_____

DISCUSSION: (1.2) _____

TOTAL IN COURSE: (D/S/G) _____/____/_____

LESSON OBJECTIVE:

During this lesson, the student will be introduced to aircraft flight instruments and systems, and aircraft maintenance requirements.

CONTENT:

Lesson Introduction

_____ Vacuum System
_____ Gyroscopic Instruments
_____ Pitot-Static System
_____ Pitot-Static Instruments
_____ Electric Instruments

Lesson Introduction

_____ Avionics Systems
_____ Deicing and Anti-icing Systems
_____ Magnetic Compass and Associated Errors
_____ Maintenance Requirements
_____ Service Bulletins / Airworthiness Directives

COMPLETION STANDARDS:

At the completion of this lesson, the student will have a knowledge of the aircraft flight instruments and systems, and aircraft maintenance requirements.

ADDITIONAL STUDY:

FAA-H-8083-25-PHAK - Chapters 7 & 8
AFM/POH
Vol 1: Segment 6
Vol 3: Segments 13 & 15
Vol 5: Segment 3

Notes: _____

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STAGE I
LESSON 25
DUAL - LOCAL

DATE_____ ACFT ID_____ GRADE (Circle One) S U I

STUDENT NAME _____ STUDENT SIGNATURE_____

INSTRUCTOR # _____ INSTRUCTOR SIGNATURE_____

FLIGHT TIME: (1.2) _____ DISCUSSION: (0.5) _____

TOTAL IN COURSE: (D/S/G) _____/____/_____

LESSON OBJECTIVE:

Prior to this flight, the instructor will administer and grade a presolo written exam**. Prior to the flight,** the instructor will review all incorrect answers with the student. During this lesson, the student will review correct operating procedures prior to the stage check.

CONTENT:

Lesson Review

_____ Engine Starting
_____ Radio Communications
_____ Taxiing
_____ Before Takeoff Check
_____ Runway Incursion Avoidance
_____ Normal and/or Crosswind Takeoff & Climb
_____ Traffic Pattern Operations
_____ Side Slip to a Landing
_____ Forward Slip to a Landing
_____ Go-Around / Rejected Landing
_____ Emergency Approach & Landing
_____ Maneuvering during Slow Flight

Lesson Review

_____ Straight and Level Flight
_____ Turns to Headings
_____ Constant Airspeed Climbs
_____ Constant Airspeed Descents
_____ Steep Turns
_____ Systems and Equipment Malfunctions
_____ Normal and/or Crosswind Approach & Landing
_____ Power-Off Stalls
_____ Power-On Stalls
_____ Aeronautical Decision Making & Judgment
_____ Practice Area Operations

COMPLETION STANDARDS:

This lesson is complete when the student satisfactorily completes a presolo written exam and the student demonstrates correct procedures for preflight duties and all other tasks to a level that allows the safe conduct of solo flight in the local area. The student shall maintain or level-off at assigned altitude ±150 feet, maintain or roll out on headings ±15°, and maintain airspeed ±10 knots while performing climbs, descents, turns, straight and level, and traffic pattern operations unless otherwise specified. Slow flight will be performed at an airspeed at which any further increase in angle of attack, increase in load factor, or reduction in power, would result in a stall warning, and will be maintained +15, -0 knots. Stalls will be performed in both straight and level and turning flight. Steep turns will be performed at 45° of bank ±5°, while maintaining altitude ±150 feet and with the roll out on the assigned heading ±10°. Airspeed will be maintained at V_Y +10, -5 knots during the climb after takeoff. Recommended approach airspeed will be maintained +10, -5 knots and the touchdown will be beyond and within 500 feet of a designated point of landing.

ADDITIONAL STUDY:

FAA-H-8083-3-AFH - Chapters 2, 4, 5, & 8
FAA-H-8083-25-PHAK - Chapters 2, 5, & 14
AIM - Chapter 4
Private Pilot Airman Certification Standards
Vol 1: Review Segments as Needed
Vol 2: Review Segments as Needed
Vol 3: Segments 23-25; Review Segments as Needed

Notes:

STAGE I
LESSON 26
DUAL - GROUND
AIRSPACE

DATE_____ GRADE (Circle One) S U I

STUDENT NAME _____ STUDENT SIGNATURE_____

INSTRUCTOR # _____ INSTRUCTOR SIGNATURE_____

DISCUSSION: (1.2) _____

TOTAL IN COURSE: (D/S/G) _____/____/_____

LESSON OBJECTIVE:

During this lesson, the student will be introduced to controlled and uncontrolled airspace, the classes of airspace, special use airspace, and cloud clearances.

CONTENT:

Lesson Introduction

_____ Uncontrolled Airspace
_____ Controlled Airspace
_____ Class A
_____ Class B
_____ Class C
_____ Class D

Lesson Introduction

_____ Class E
_____ Class G
_____ Special Use Airspace
_____ Other Airspace Areas
_____ Cloud Clearance & Visibility Requirements

COMPLETION STANDARDS:

At the completion of this lesson, the student will have a knowledge of controlled and uncontrolled airspace, the classes of airspace, special use airspace, and cloud clearances.

ADDITIONAL STUDY:

FAR
AIM - Chapter 3
Vol 4: Segment 19

Notes:

PRE-STAGE CHECK – TIME SUMMARY

This page is intended to be used by the student's flight instructor to summarize the times accumulated through this course of instruction and determine that the times are sufficient for the stage requirements. The check instructor should verify that these times are acceptable for completion of the stage.

DATE_____ STUDENT NAME _____ STUDENT SIGNATURE_____

INSTRUCTOR # _____ INSTRUCTOR SIGNATURE_____

STAGE TOTALS

FLIGHT TIME (DUAL): _____

FLIGHT TIME (SOLO): _____

FLIGHT TIME (DUAL CROSS-COUNTRY): _____

FLIGHT TIME (SOLO CROSS-COUNTRY): _____

FLIGHT TIME (NIGHT): _____

ATD/FTD/SIM: _____

INSTRUMENT: _____ (In flight only.)

GROUND/DISCUSSION: _____ (Be sure to include the Ground Lesson times.)

STAGE I
LESSON 27
STAGE I CHECK

DATE_____ ACFT ID_____ GRADE (Circle One) S U I

STUDENT NAME _____ STUDENT SIGNATURE_____

INSTRUCTOR # _____ INSTRUCTOR SIGNATURE_____

FLIGHT TIME: (1.5) _____ DISCUSSION: (1.5) _____

TOTAL IN COURSE: (D/S/G) _____/____/_____

LESSON OBJECTIVE:

This stage check will determine that the student has accomplished the objectives of Stage I.

CONTENT:

Lesson Review

ORAL

_____ Operation of Systems
_____ Certificates & Documents
_____ Aircraft Logbooks
_____ Use of Checklists
_____ Preflight Inspection
_____ Airplane Servicing
_____ Weather Information
_____ Performance & Limitations

FLIGHT

_____ Dispatch Procedures
_____ Preflight Inspection
_____ Engine Starting
_____ Radio Communications
_____ Taxiing
_____ Before Takeoff Check

Lesson Review

FLIGHT (CONTINUED)

_____ Normal Takeoff & Climb
_____ Crosswind Takeoff & Climb
_____ Traffic Pattern Operations
_____ Collision Avoidance Precautions
_____ Maneuvering during Slow Flight
_____ Power-Off Stalls
_____ Power-On Stalls
_____ Normal Approach & Landing
_____ Crosswind Approach & Landing
_____ Emergency Approach & Landing
_____ Go-Around / Rejected Landing
_____ Systems & Equipment Malfunctions
_____ Practice Area Operations
_____ Aeronautical Decision Making & Judgment
_____ After Landing Checks
_____ Parking, Securing, & Proper Tie Down
_____ Recovery Procedures

COMPLETION STANDARDS:

This lesson is complete when the student can competently perform preflight duties and all other procedures necessary for the safe conduct of a solo flight in the local training area. The student shall maintain or level-off at assigned altitudes ±150 feet, maintain or roll out on headings ±15°, and maintain airspeeds ±10 knots while performing climbs, descents, turns, straight and level, and traffic pattern operations unless otherwise specified. Slow flight will be performed at an airspeed at which any further increase in angle of attack, increase in load factor, or reduction in power, would result in a stall warning, and will be maintained +15, -0 knots. Stalls will be performed in both straight and level and turning flight. Airspeed will be maintained at V_Y +10, -5 knots during the climb after takeoff or a go-around. Recommended approach airspeed will be maintained +10, -5 knots and the touchdown will be beyond and within 500 feet of a designated point of landing.

Notes:

STAGE I
LESSON 28
DUAL - GROUND
CHARTS & PUBLICATIONS

DATE_____ GRADE (Circle One) S U I

STUDENT NAME _____ STUDENT SIGNATURE_____

INSTRUCTOR # _____ INSTRUCTOR SIGNATURE_____

DISCUSSION: (1.2) _____

TOTAL IN COURSE: (D/S/G) _____/____/_____

LESSON OBJECTIVE:

During this lesson, the student will be introduced to VFR sectional charts and the Chart Supplements.

CONTENT:

Lesson Introduction

_____ VFR Sectional Charts
_____ Chart Supplements
_____ Planning for Alternatives

COMPLETION STANDARDS:

At the completion of this lesson, the student will have a knowledge of VFR sectional charts and the Chart Supplements.

ADDITIONAL STUDY:

VFR Sectional
Chart Supplements
Vol 4: Segments 3 & 7

Notes:

STAGE I
LESSON 29
DUAL - LOCAL

DATE_____ ACFT ID_____ GRADE (Circle One) S U I

STUDENT NAME _____ STUDENT SIGNATURE_____

INSTRUCTOR # _____ INSTRUCTOR SIGNATURE_____

FLIGHT TIME: (1.2) _____ DISCUSSION: (0.2) _____

TOTAL IN COURSE: (D/S/G) _____/____/_____

LESSON OBJECTIVE:

During this lesson, the instructor will review takeoffs and landings to refine the student's level of proficiency for solo flight.

CONTENT:

Lesson Review

_____ Runway Incursion Avoidance
_____ Crosswind Takeoff & Climb
_____ Normal Takeoff & Climb
_____ Traffic Pattern Operations
_____ Normal Approach & Landing

Lesson Review

_____ Crosswind Approach & Landing
_____ Aeronautical Decision Making & Judgment
_____ Go-Around / Rejected Landing
_____ After Landing Checks
_____ Parking & Securing

COMPLETION STANDARDS:

Takeoffs, landings, and go-arounds should be performed without instructor intervention and with minimal coaching. The student should demonstrate safe and effective technique during all traffic pattern operations, accomplishing all takeoffs, landings, and go-arounds to a proficiency level required for solo flight. Airspeed will be maintained at V_Y +10, -5 knots during the climb after takeoff or a go-around. Recommended approach airspeed will be maintained +10, -5 knots and the touchdown will be beyond and within 500 feet of a designated point of landing.

ADDITIONAL STUDY:

FAA-H-8083-3-AFH - Chapters 2, 5, 7, & 8
FAA-H-8083-25-PHAK - Chapters 2 & 14
AIM - Chapter 4
Private Pilot Airman Certification Standards
Vol 2: Review Segments as Needed
Vol 3: Review Segments as Needed

Notes: _____

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STAGE I
LESSON 30
DUAL - GROUND
AEROMEDICAL

DATE_____ GRADE (Circle One) S U I

STUDENT NAME _____ STUDENT SIGNATURE_____

INSTRUCTOR # _____ INSTRUCTOR SIGNATURE_____

DISCUSSION: (1.2) _____

TOTAL IN COURSE: (D/S/G) _____/____/_____

LESSON OBJECTIVE:

During this lesson, the student will be introduced to aeromedical and human factors.

CONTENT:

Lesson Introduction

_____ 14 CFR Part 67
_____ The Inner Ear
_____ Middle Ear and Sinus Problems
_____ Spatial Disorientation
_____ The Eye
_____ Visual Illusions / Landing Illusions

Lesson Introduction

_____ Hypoxia
_____ Carbon Monoxide Poisoning
_____ Hyperventilation
_____ Alcohol and Drugs
_____ Stress and Fatigue
_____ Dehydration

COMPLETION STANDARDS:

At the completion of this lesson, the student will have a knowledge of aeromedical and human factors and how they relate to flying activities.

ADDITIONAL STUDY:

FAA-H-8083-25-PHAK - Chapter 17
FAR
AIM - Chapter 8
Vol 3: Segments 23-24

Notes:

STAGE I
LESSON 31
DUAL - LOCAL

DATE_____ ACFT ID_____ GRADE (Circle One) S U I

STUDENT NAME _____ STUDENT SIGNATURE_____

INSTRUCTOR # _____ INSTRUCTOR SIGNATURE_____

FLIGHT TIME: (1.2) _____ DISCUSSION: (0.2) _____

TOTAL IN COURSE: (D/S/G) _____/____/_____

LESSON OBJECTIVE:

During this lesson, the instructor will review takeoffs and landings to refine the student's level of proficiency for solo flight.

CONTENT:

Lesson Review

_____ Taxiing
_____ Before Takeoff Check
_____ Runway Incursion Avoidance
_____ Normal and/or Crosswind Takeoff & Climb
_____ Traffic Pattern Operations
_____ Systems and Equipment Malfunctions

Lesson Review

_____ Aeronautical Decision Making & Judgment
_____ Go-Around / Rejected Landing
_____ Normal and/or Crosswind Approach & Landing
_____ Emergency Approach & Landing

COMPLETION STANDARDS:

The student will demonstrate the safe completion of the tasks associated with traffic pattern operations, with the outcome never seriously in doubt. The student should accomplish this without assistance and coaching from the instructor. Airspeed will be maintained at V_Y +10, -5 knots during the climb after takeoff or a go-around. Recommended approach airspeed will be maintained +10, -5 knots and the touchdown will be beyond and within 500 feet of a designated point of landing.

ADDITIONAL STUDY:

FAA-H-8083-3-AFH - Chapters 2, 5, 7, 8, & 17
FAA-H-8083-25-PHAK - Chapters 2 & 14
AIM - Chapters 4 & 6
Private Pilot Airman Certification Standards
Vols 1-3: Review Segments as Needed

Notes:

STAGE I
LESSON 32
DUAL AND SOLO - LOCAL

DATE_____ ACFT ID_____ GRADE (Circle One) S U I

STUDENT NAME _____ STUDENT SIGNATURE_____

INSTRUCTOR # _____ INSTRUCTOR SIGNATURE_____

FLIGHT TIME DUAL: (1.0) _____ SOLO: (0.6) _____

DISCUSSION: (0.2) _____TOTAL IN COURSE: (D/S/G) _____/____/_____

LESSON OBJECTIVE:

During the dual portion of the lesson, the instructor will review takeoff and landing procedures to determine that the student is proficient and competent for solo flight. During the lesson, **after being properly endorsed by the flight instructor,** the student will fly a supervised solo flight in the traffic pattern.

CONTENT:

Lesson Review

_____ Review Student Handbook / Operations Manual Concerning Solo Requirements
_____ Runway Incursion Avoidance
_____ Traffic Pattern Operations
_____ Normal Takeoffs and Landings

Supervised Solo

_____ Radio Communications
_____ Taxiing
_____ Before Takeoff Check
_____ Runway Incursion Avoidance
_____ Normal Takeoff & Climb
_____ Traffic Pattern Operations
_____ Normal Approach & Landing
_____ Postflight Procedures

COMPLETION STANDARDS:

This lesson and Stage I are complete when the student accomplishes a solo flight supervised by the instructor. The student will adhere to established traffic pattern procedures and demonstrate that solo flight in the traffic pattern can be accomplished safely.

ADDITIONAL STUDY:

FAA-H-8083-3-AFH - Chapters 2, 5, 7, 8, & 17
FAA-H-8083-25-PHAK - Chapters 2 & 14
AIM - Chapters 4 & 6
Private Pilot Airman Certification Standards

Notes: _____

_____

_____

_____

_____

STAGE II

STAGE OBJECTIVE:

This stage introduces the student to navigating to nearby airports by use of pilotage. The student will also be introduced to diversion, lost procedures, and planning for alternatives if the planned flight cannot be completed. The student will also be introduced to maximum performance takeoffs and landings.

STAGE COMPLETION STANDARDS:

The student will demonstrate performance to a standard that meets performance criteria for a Private Pilot Certificate (ASEL).

STAGE II
LESSON 33
DUAL - GROUND
PRINCIPLES OF
NAVIGATION

DATE_____ GRADE (Circle One) S U I

STUDENT NAME _____ STUDENT SIGNATURE_____

INSTRUCTOR # _____ INSTRUCTOR SIGNATURE_____

DISCUSSION: (1.2) _____

TOTAL IN COURSE: (D/S/G) _____/____/_____

LESSON OBJECTIVE:

During this lesson, the student will be introduced to principles of navigation.

CONTENT:

Lesson Introduction

_____ Effect of Wind in (1) Hour
_____ Drift and Drift Correction
_____ Various Types of Aircraft Speeds
_____ Latitude and Longitude

Lesson Introduction

_____ Earth's Magnetism
_____ Variation - Isogonic and Agonic Lines
_____ Magnetic Compass
_____ Magnetic Compass Errors

COMPLETION STANDARDS:

At the completion of this lesson, the student will have a knowledge of the principles of navigation.

ADDITIONAL STUDY:

FAA-H-8083-3-AFH - Chapter 6
FAA-H-8083-25-PHAK - Chapter 16
Vol 4: Segments 3, 5, & 6
Vol 5: Segment 3

Notes:

STAGE II
LESSON 34
DUAL - LOCAL

DATE_____ ACFT ID_____ GRADE (Circle One) S U I

STUDENT NAME _____ STUDENT SIGNATURE_____

INSTRUCTOR # _____ INSTRUCTOR SIGNATURE_____

FLIGHT TIME: (1.2) _____ DISCUSSION: (0.2) _____

TOTAL IN COURSE: (D/S/G) _____/____/_____

LESSON OBJECTIVE:

During this lesson, the student will be introduced to the maximum takeoff and landing performance of the training airplane. The student shall develop an understanding of the maximum performance capabilities of the aircraft.

CONTENT:

Lesson Review

_____ Passenger Briefing
_____ Normal and/or Crosswind Takeoff & Climb
_____ Normal and/or Crosswind Approach & Landing

Lesson Introduction

_____ Single-Pilot Resource Management
_____ Short-Field Takeoff & Maximum Performance Climb
_____ Soft-Field Takeoff & Climb
_____ Short-Field Approach & Landing
_____ Soft-Field Approach & Landing

COMPLETION STANDARDS:

The student will be able to explain what runway conditions necessitate the use of short and soft-field takeoff and landing techniques. In addition, the student will be able to demonstrate the correct procedure to be used under these conditions. The maximum performance takeoffs and landings will be performed with minimal assistance from the instructor. Airspeed will be maintained at V_Y +10, -5 knots during the climb after a normal or crosswind takeoff. Recommended approach airspeed will be maintained +10, -5 knots and the touchdown will be beyond and within 400 feet of a designated point of landing for normal or crosswind landings.

ADDITIONAL STUDY:

FAA-H-8083-3-AFH - Chapters 5 & 8
FAA-H-8083-25-PHAK - Chapter 11
Private Pilot Airman Certification Standards
Vol 5: Segments 5-8

Notes:

STAGE II
LESSON 35
DUAL - GROUND
PUBLICATIONS &
EQUIPMENT

DATE_____ GRADE (Circle One) S U I

STUDENT NAME _____ STUDENT SIGNATURE_____

INSTRUCTOR # _____ INSTRUCTOR SIGNATURE_____

DISCUSSION: (1.2) _____

TOTAL IN COURSE: (D/S/G) _____/____/_____

LESSON OBJECTIVE:

During this lesson, the student will be introduced to various aeronautical publications and cross-country flight planning equipment. The minimum equipment list (MEL) will be introduced as well.

CONTENT:

Lesson Review

_____ Aircraft Equipment List
_____ VFR Sectional Chart
_____ Chart Supplements

Lesson Introduction

_____ VFR Terminal Area Chart
_____ Plotter
_____ Flight Computer
_____ Flight Deck Management
_____ Minimum Equipment List
_____ Supplemental Oxygen

COMPLETION STANDARDS:

At the completion of this lesson, the student will have a knowledge of aeronautical publications, cross-country flight planning equipment, and the MEL concept.

ADDITIONAL STUDY:

FAA-H-8083-25-PHAK - Chapters 2, 7, 9, 14, & 16
VFR Sectional Chart
VFR Terminal Area Chart
FAR
AIM - Chapter 9
Chart Supplements
Vol 4: Segments 3-6; 15 & 18

Notes: _____

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_____

STAGE II
LESSON 36
DUAL - LOCAL

DATE_____ ACFT ID_____ GRADE (Circle One) S U I

STUDENT NAME _____ STUDENT SIGNATURE_____

INSTRUCTOR # _____ INSTRUCTOR SIGNATURE_____

FLIGHT TIME: (1.2) _____ DISCUSSION: (0.2) _____

TOTAL IN COURSE: (D/S/G) _____/____/_____

LESSON OBJECTIVE:

During this lesson, the student will practice maneuvers to gain proficiency and confidence in his or her ability to obtain the maximum performance from the aircraft.

CONTENT:

Lesson Review

_____ Passenger Briefing
_____ Maneuvering during Slow Flight
_____ Power-Off Stalls (Full)
_____ Power-On Stalls (Full)
_____ Forward Slip to a Landing

Lesson Review

_____ Short-Field Takeoff & Maximum Performance Climb
_____ Soft-Field Takeoff & Climb
_____ Short-Field Approach & Landing
_____ Soft-Field Approach & Landing

COMPLETION STANDARDS:

The student will perform takeoffs and landings smoothly, while maintaining good directional control. Slow flight will be performed at an airspeed at which any further increase in angle of attack, increase in load factor, or reduction in power, would result in a stall warning, and will be maintained +10, -0 knots. During short and soft-field takeoffs, airspeed should be maintained at V_X +10, -5 knots until obstacles are cleared, and V_Y +10, -5 knots after that. All approaches will be stabilized and desired airspeed will be maintained +10, -5 knots for all landings. The touchdown will be beyond and within 400 feet of a designated point of landing for short-field landings.

ADDITIONAL STUDY:

FAA-H-8083-3-AFH - Chapters 4, 5, & 8
FAA-H-8083-25-PHAK - Chapter 11
Private Pilot Airman Certification Standards
Vol 2: Review segments as needed
Vol 5: Segment 8

Notes:

STAGE II
LESSON 37
DUAL - GROUND
CROSS-COUNTRY
FLIGHT PLANNING

DATE_____ GRADE (Circle One) S U I

STUDENT NAME _____ STUDENT SIGNATURE_____

INSTRUCTOR # _____ INSTRUCTOR SIGNATURE_____

DISCUSSION: (1.2) _____

TOTAL IN COURSE: (D/S/G) _____/____/_____

LESSON OBJECTIVE:

During this lesson, the student will be introduced to cross-country flight planning.

CONTENT:

Lesson Introduction

_____ Applicable FARs
_____ Measuring True Course and Distance
_____ Picking Checkpoints and Altitudes
_____ Pilotage

Lesson Introduction

_____ Airplane Flight Manual / Pilots Operating Handbook (AFM/POH)
_____ Performance Calculations

COMPLETION STANDARDS:

At the completion of this lesson, the student will have a knowledge of cross-country flight planning and cross-country performance calculations.

ADDITIONAL STUDY:

FAA-H-8083-25-PHAK - Chapters 9 & 16
FAR
AIM - Chapters 1 & 9
Vol 4: Segments 5-7
Vol 5: Segment 5

Notes:

STAGE II
LESSON 38
SOLO - LOCAL

DATE_____ ACFT ID_____ GRADE (Circle One) SP I

STUDENT NAME _____ STUDENT SIGNATURE_____

FLIGHT TIME SOLO: (1.0) _____ DISCUSSION: ( ) _____

TOTAL IN COURSE: (D/S/G) _____/____/_____

LESSON OBJECTIVE:

During this lesson, the student will practice maneuvers to gain proficiency and confidence in his or her ability to solo an aircraft.

CONTENT:

Lesson Review

_____ Normal and/or Crosswind Takeoff & Climb
_____ Short-Field Takeoff & Maximum Performance Climb
_____ Soft-Field Takeoff & Climb
_____ Rectangular Course
_____ S-Turns
_____ Turns around a Point
_____ Steep Turns
_____ Maneuvering during Slow Flight

Lesson Review

_____ Power-Off Stalls
_____ Power-On Stalls
_____ Forward Slip to Landing
_____ Normal and/or Crosswind Approach & Landing
_____ Short-Field Approach & Landing
_____ Soft-Field Approach & Landing
_____ Other (As Assigned by Instructor)

COMPLETION STANDARDS:

The lesson is complete when the student has safely conducted the assigned solo flight. During this lesson, the student should attempt to gain proficiency in the solo operation of the aircraft.

ADDITIONAL STUDY:

FAA-H-8083-3-AFH - Chapters 4, 5, 6, & 8
FAA-H-8083-25-PHAK - Chapter 5
Private Pilot Airman Certification Standards
Vol 1: Review Segments as Needed
Vol 2: Review Segments as Needed
Vol 5: Segment 8

Notes: _____

_____

_____

_____

_____

STAGE II
LESSON 39
DUAL - GROUND
CROSS-COUNTRY
FLIGHT PLANNING

DATE_____ GRADE (Circle One) S U I

STUDENT NAME _____ STUDENT SIGNATURE_____

INSTRUCTOR # _____ INSTRUCTOR SIGNATURE_____

DISCUSSION: (1.2) _____

TOTAL IN COURSE: (D/S/G) _____/____/_____

LESSON OBJECTIVE:

During this lesson, the student will be introduced to additional concepts associated with cross-country flight planning.

CONTENT:

Lesson Introduction

_____ The Wind Triangle
_____ Dead Reckoning
_____ Calculating Various Airspeeds

Lesson Introduction

_____ Electronic E6B Flight Computer
_____ Manual E6B

COMPLETION STANDARDS:

At the completion of this lesson, the student will have a knowledge of additional concepts associated with cross-country flight planning.

ADDITIONAL STUDY:

FAA-H-8083-25-PHAK - Chapter 16
FAR
AIM - Chapter 1
Vol 4: Segments 5, 6, & 18

Notes:

STAGE II
LESSON 40
DUAL - PILOTAGE

DATE_____ ACFT ID_____ GRADE (Circle One) S U I

STUDENT NAME _____ STUDENT SIGNATURE_____

INSTRUCTOR # _____ INSTRUCTOR SIGNATURE_____

FLIGHT TIME: (1.5) _____ DISCUSSION: (0.2) _____

APT IDs: _____/_____ TOTAL IN COURSE: (D/S/G) _____/____/_____

LESSON OBJECTIVE:

During this lesson, the student will determine the course and fly round-trip to an airport more than 25 nautical miles, but less than 50 nautical miles from the airport at which the instruction is given. The student will complete at least one landing at this airport, and at least one additional landing at an airport within 25 nautical miles of the airport where the student normally trains. In addition, the student will follow the course solely by visual reference to landmarks and using the magnetic compass. The instructor will introduce radio communications that may be encountered during pilotage flights.

CONTENT:

Lesson Review

_____ Passenger Briefing
_____ Runway Incursion Avoidance
_____ Single-Pilot Resource Management
_____ Normal Takeoff & Climb
_____ Traffic Pattern Operations
_____ Normal Approach & Landing
_____ Aeronautical Decision Making & Judgment
_____ Radio Communications at Non-Towered Airports

Lesson Introduction

_____ VFR Navigation Charts
_____ Flight Publications
_____ Radio Communications with Flight Service
_____ Route Selection
_____ Pilotage
_____ Use of Magnetic Compass
_____ Unfamiliar Airport Operation
_____ Critical Weather Recognition
_____ Estimates of Heading & Fuel Consumption

COMPLETION STANDARDS:

The student will be able to identify selected landmarks, at all times verify position within 5 nautical miles, maintain heading ±15°, and maintain altitude ±200 feet of the selected appropriate altitude. The student will also demonstrate appropriate radio communication procedures at non-towered airports and with Flight Service.

ADDITIONAL STUDY:

FAA-H-8083-3-AFH - Chapters 5, 7, & 8
FAA-H-8083-25-PHAK - Chapters 2, 14, & 16
AIM - Chapters 1, 2, 4, & 9
Private Pilot Airman Certification Standards
Vol 4: Segments 3-7; 16 & 18
Vol 5: Segment 19

Notes:

STAGE II
LESSON 41
DUAL - GROUND
CROSS-COUNTRY
FLIGHT PLANNING

DATE_____ GRADE (Circle One) S U I

STUDENT NAME _____ STUDENT SIGNATURE_____

INSTRUCTOR # _____ INSTRUCTOR SIGNATURE_____

DISCUSSION: (1.2) _____

TOTAL IN COURSE: (D/S/G) _____/____/_____

LESSON OBJECTIVE:

During this lesson, the student will be introduced to additional concepts associated with cross-country flight planning.

CONTENT:

Lesson Introduction

_____ Diversion Procedures
_____ Alternate Planning
_____ Lost Procedures

COMPLETION STANDARDS:

At the completion of this lesson, the student will have a knowledge of additional concepts associated with cross-country flight planning.

ADDITIONAL STUDY:

FAA-H-8083-25-PHAK - Chapter 16
FAR
AIM - Chapters 1, 6, & 9
Vol 4: Segment 5-7
Vol 5: Segment 19

Notes:

STAGE II
LESSON 42
DUAL - PILOTAGE

DATE_____ ACFT ID_____ GRADE (Circle One) S U I

STUDENT NAME _____ STUDENT SIGNATURE_____

INSTRUCTOR # _____ INSTRUCTOR SIGNATURE_____

FLIGHT TIME: (1.8) _____ DISCUSSION: (0.2) _____

APT ID: _____ TOTAL IN COURSE: (D/S/G) _____/____/_____

LESSON OBJECTIVE:

During this lesson, the student will determine the course to fly to an airport more than 25 nautical miles from the airport at which instruction is given. The student will follow the course solely by visual reference to landmarks and using the magnetic compass. The instructor will introduce emergency descents, planning for alternates, and lost procedures.

CONTENT:

Lesson Review

_____ Single-Pilot Resource Management
_____ Aeronautical Decision Making & Judgment
_____ Estimates of Heading & Fuel Consumption
_____ Critical Weather Recognition
_____ Unfamiliar Airport Operation
_____ Route Selection
_____ Pilotage
_____ VFR Navigation Charts & Publications

Lesson Introduction

_____ Emergency Descent
_____ Planning for Alternatives
_____ Diversion to an Alternate Airport
_____ Lost Procedures

COMPLETION STANDARDS:

The student will be able to identify selected landmarks, at all times verify position within 3 nautical miles, maintain heading ±15°, and maintain the selected appropriate altitude ±200 feet. The student will explain the conditions and procedures for diversion to an alternate. The student will also be able to effectively communicate at non-towered airports and with Flight Service.

ADDITIONAL STUDY:

FAA-H-8083-3-AFH - Chapters 5, 7, & 8
FAA-H-8083-25-PHAK - Chapters 2, 14, & 16
AIM - Chapters 1, 2, 4, & 9
Private Pilot Airman Certification Standards
Vol 4: Segments 3-7; 16 & 18
Vol 5: Segment 19

Notes: _____

STAGE II
LESSON 43
DUAL - GROUND
AIRSPACE &
COMMUNICATIONS

DATE_____ GRADE (Circle One) S U I

STUDENT NAME _____ STUDENT SIGNATURE_____

INSTRUCTOR # _____ INSTRUCTOR SIGNATURE_____

DISCUSSION: (1.2) _____

TOTAL IN COURSE: (D/S/G) _____/____/_____

LESSON OBJECTIVE:

During this lesson, a review of airspace and communication requirements will be conducted.

CONTENT:

Lesson Introduction

_____ Class A
_____ Class B
_____ Class C
_____ Class D
_____ Class E
_____ Class G
_____ TRSA Communications
_____ FSS Communications
_____ Approach Control
_____ Departure Control
_____ Clearance Delivery

Lesson Introduction

_____ Tower Communications
_____ Ground Control
_____ Runway and Taxiway Signs, Markings, and Lighting at Tower Controlled Fields
_____ Runway Incursion Avoidance at Tower Controlled Fields
_____ Readback / Hearback for Hold Short, Line Up and Wait, and Runway Crossing Instructions
_____ ATC Light Gun Signals

COMPLETION STANDARDS:

At the completion of this lesson, the student will be familiar with various classes of airspace and their associated communication requirements.

ADDITIONAL STUDY:

AC 91-73 - Parts 91 and 135 Single Pilot, Flight School Procedures During Taxi Operations
FAA-H-8083-3-AFH - Chapter 2
FAA-H-8083-25-PHAK - Chapters 14 & 16
FAR
AIM - Chapters 1, 2, 3, 4, 5, & 9
Vol 4: Segments 17 & 19
Vol 5: Segments 1, 2, & 7
Vol 6: Segments 3 & 6

Notes: _____

STAGE II
LESSON 44
SOLO - PILOTAGE

DATE_____ ACFT ID_____ GRADE (Circle One) SP I

STUDENT NAME _____ STUDENT SIGNATURE_____

FLIGHT TIME SOLO: (1.5) _____ DISCUSSION: ( ) _____

APT ID: _____ TOTAL IN COURSE: (D/S/G) _____/____/_____

LESSON OBJECTIVE:

During this lesson, the student will complete a flight to an airport located within 25 nautical miles of the airport where the student normally trains and return to the original departure point. The student will practice takeoffs and landings in order to increase proficiency. The instructor will properly endorse the student for this flight.

CONTENT:

Lesson Review

_____ Normal and/or Crosswind Takeoff & Climb
_____ Short-Field Takeoff & Maximum Performance Climb
_____ Soft-Field Takeoff & Climb
_____ Normal and/or Crosswind Approach & Landing

Lesson Review

_____ Short-Field Approach & Landing
_____ Soft-Field Approach & Landing
_____ Other (As Assigned by the Instructor)

COMPLETION STANDARDS:

The lesson is complete when the student has conducted the assigned flight to another airport and returns. During this lesson, the student should continue to gain proficiency in each of the listed maneuvers.

ADDITIONAL STUDY:

FAA-H-8083-3-AFH - Chapters 5 & 8
FAA-H-8083-25-PHAK - Chapters 11 & 14
Private Pilot Airman Certification Standards
Vol 4: Review Segments as Needed
Vol 5: Review Segments as Needed

Notes:

STAGE II
LESSON 45
DUAL - GROUND
ELECTRONIC AIDS
TO NAVIGATION

DATE_____ GRADE (Circle One) S U I

STUDENT NAME _____ STUDENT SIGNATURE_____

INSTRUCTOR # _____ INSTRUCTOR SIGNATURE_____

DISCUSSION: (1.2) _____

TOTAL IN COURSE: (D/S/G) _____/____/_____

LESSON OBJECTIVE:

During this lesson, the student will be introduced to electronic aids to navigation and automation.

CONTENT:

Lesson Introduction

_____ VOR Tuning and Identifying
_____ VOR Intercepting and Tracking
_____ GPS Modes of Operation
_____ GPS Waypoints
_____ GPS Direct-To Operations
_____ GPS Flight Plan Operations
_____ GPS Nearest Functions

Lesson Introduction (if equipped)

_____ Autopilot Principles of Operation
_____ Autopilot Errors, Irregularities, & Failure Modes
_____ Autopilot Disconnect Options
_____ Autopilot Limitations
_____ Installed Autopilot Specific Procedures
_____ ADF / NDB Tuning and Identifying
_____ ADF / NDB Homing
_____ ADF / NDB Intercepting and Tracking
_____ ADF / NDB Errors

COMPLETION STANDARDS:

At the completion of this lesson, the student will have a knowledge of VOR tuning, identifying, & tracking. The student will also be aware of the basics of GPS use. If the training aircraft is equipped with an autopilot, the student should have a knowledge of its basic operation and limitations along with the ways to disconnect the autopilot. If the training aircraft is equipped with an ADF, the student should have a knowledge of NDB tuning, intercepting, & tracking along with potential NDB errors.

ADDITIONAL STUDY:

FAA-H-8083-3-AFH - Chapters 5, 8, & 17
FAA-H-8083-25-PHAK - Chapter 16
AIM - Chapters 1 & 6
Private Pilot Airman Certification Standards
Vol 4: Review Segments as Needed
Vol 5: Review Segments as Needed

Notes: _____

STAGE II
LESSON 46
DUAL - LOCAL

DATE_____ ACFT ID_____ GRADE (Circle One) S U I

STUDENT NAME _____ STUDENT SIGNATURE_____

INSTRUCTOR # _____ INSTRUCTOR SIGNATURE_____

FLIGHT TIME: (1.0) _____ DISCUSSION: (0.2) _____

TOTAL IN COURSE: (D/S/G) _____/____/_____

LESSON OBJECTIVE:

During this lesson, the instructor will evaluate student proficiency with respect to maximum performance takeoffs and landings and pilotage procedures as well as en route systems and equipment problems.

CONTENT:

Lesson Review

_____ Short-Field Takeoff & Maximum Performance Climb
_____ Soft-Field Takeoff & Climb
_____ Pilotage
_____ Diversion
_____ Lost Procedure

Lesson Review

_____ System & Equipment Malfunctions
_____ Emergency Approach & Landing
_____ Radio Communications
_____ Short-Field Approach & Landing
_____ Soft-Field Approach & Landing
_____ Emergency Descent

COMPLETION STANDARDS:

The student shall perform all maneuvers to the standards established by the current Private Pilot Airman Certification Standards.

ADDITIONAL STUDY:

FAA-H-8083-3-AFH - Chapters 8 & 17
FAA-H-8083-25-PHAK - Chapters 14 & 16
Private Pilot Airman Certification Standards
Vol 4: Review Segments as Needed
Vol 5: Review Segments as Needed

Notes:

PRE-STAGE CHECK – TIME SUMMARY

This page is intended to be used by the student's flight instructor to summarize the times accumulated through this course of instruction and determine that the times are sufficient for the stage requirements. The check instructor should verify that these times are acceptable for completion of the stage.

DATE_____ STUDENT NAME _____ STUDENT SIGNATURE_____

INSTRUCTOR # _____ INSTRUCTOR SIGNATURE_____

STAGE TOTALS

FLIGHT TIME (DUAL): _____

FLIGHT TIME (SOLO): _____

FLIGHT TIME (DUAL CROSS-COUNTRY): _____

FLIGHT TIME (SOLO CROSS-COUNTRY): _____

FLIGHT TIME (NIGHT): _____

ATD/FTD/SIM: _____

INSTRUMENT: _____ (In flight only.)

GROUND/DISCUSSION: _____ (Be sure to include the Ground Lesson times.)

COURSE TOTALS

FLIGHT TIME (DUAL): _____

FLIGHT TIME (SOLO): _____

FLIGHT TIME (DUAL CROSS-COUNTRY): _____

FLIGHT TIME (SOLO CROSS-COUNTRY): _____

FLIGHT TIME (NIGHT): _____

ATD/FTD/SIM: _____

INSTRUMENT: _____ (In flight only.)

GROUND/DISCUSSION: _____ (Be sure to include the Ground Lesson times.)

STAGE II
LESSON 47
STAGE II CHECK

DATE_____ ACFT ID_____ GRADE (Circle One) S U I

STUDENT NAME _____ STUDENT SIGNATURE_____

INSTRUCTOR # _____ INSTRUCTOR SIGNATURE_____

FLIGHT TIME: (1.2) _____ DISCUSSION: (1.5) _____

TOTAL IN COURSE: (D/S/G) _____/____/_____

LESSON OBJECTIVE:

The student shall demonstrate the knowledge and skill of a Private Pilot in the areas listed below.

CONTENT:

Lesson Review

ORAL

Preflight Preparation
_____ Pilot Qualifications
_____ Airworthiness Requirements
_____ Weather Information
_____ National Airspace System
_____ Performance & Limitations
_____ Operation of Systems
_____ Human Factors
_____ Airport, Runway, and Taxiway Signs, Markings, & Lighting

Lesson Review

FLIGHT

Preflight Procedures
_____ Preflight Inspection
_____ Flight Deck Management
_____ Engine Starting
_____ Taxiing
_____ Before Takeoff Check

Airport Operations
_____ Radio Communications
_____ Traffic Patterns
_____ Airport, Runway, and Taxiway Signs, Markings, & Lighting

Takeoffs, Landings, and Go-Arounds
_____ Normal Takeoff & Climb
_____ Normal Approach & Landing
_____ Soft-Field Takeoff & Climb
_____ Soft-Field Approach & Landing
_____ Short-Field Takeoff & Maximum Performance Climb
_____ Short-Field Approach & Landing
_____ Forward Slip to a Landing
_____ Go-Around / Rejected Landing

Flight Continued on Next Page

Notes: _____

FLIGHT (CONTINUED)

Navigation
_____ Pilotage
_____ Diversion
_____ Lost Procedure

Emergency Operation
_____ Emergency Descents
_____ Emergency Approach & Landing (Simulated)
_____ Systems & Equipment Malfunctions
_____ Emergency Equipment & Survival Gear

Postflight Procedures
_____ After Landing, Parking, & Securing

COMPLETION STANDARDS:

The student will demonstrate proficiency that meets or exceeds Private Pilot proficiency as outlined in the FAA Private Pilot Airman Certification Standards.

Notes:

STAGE III

STAGE OBJECTIVE:

This stage introduces additional elements of aviation that are required of a Private Pilot. The skills of navigation, cross-country operations, night operations, and flight solely by reference to the instruments shall be developed.

STAGE COMPLETION STANDARDS:

At the completion of this stage, the student will demonstrate performance to a standard that meets the criteria for a Private Pilot.

STAGE III
LESSON 48
DUAL - GROUND
INSTRUMENT FLYING

DATE_____ GRADE (Circle One) S U I

STUDENT NAME _____ STUDENT SIGNATURE_____

INSTRUCTOR # _____ INSTRUCTOR SIGNATURE_____

DISCUSSION: (1.2) _____

TOTAL IN COURSE: (D/S/G) _____/____/_____

LESSON OBJECTIVE:

During this lesson, the student will be introduced to basic attitude instrument flying and recovery from unusual flight attitudes. Emergency use of an autopilot will also be covered.

CONTENT:

Lesson Introduction

_____ Basic Attitude Instrument Flight
_____ Instrument Scan and Crosscheck
_____ Unusual Flight Attitude (Nose High) Recovery
_____ Unusual Flight Attitude (Nose Low) Recovery

Lesson Introduction

_____ Full Panel Instrument Flying
_____ Partial Panel Instrument Flying
_____ Emergency Autopilot Use during an Inadvertent Encounter with Instrument Conditions

COMPLETION STANDARDS:

At the completion of this lesson, the student will have a knowledge of basic attitude instrument flying and the theory behind unusual attitude recoveries. The student will understand how an autopilot can be useful during an emergency after encountering inadvertent instrument conditions.

ADDITIONAL STUDY:

FAA-H-8083-3-AFH - Chapters 3 & 4
FAA-H-8083-25-PHAK - Chapters 6 & 8
AIM - Chapters 1 & 6
Vol 5: Segments 15-17

Notes: _____

_____

_____

_____

_____

STAGE III
LESSON 49
DUAL - GROUND
CROSS-COUNTRY FLIGHT PLANNING EXERCISE

DATE_____ GRADE (Circle One) S U I

STUDENT NAME _____ STUDENT SIGNATURE_____

INSTRUCTOR # _____ INSTRUCTOR SIGNATURE_____

DISCUSSION: (1.2) _____

TOTAL IN COURSE: (D/S/G) _____/____/_____

LESSON OBJECTIVE:

During this lesson, the student will be introduced to an actual cross-country flight planning exercise.

CONTENT:

Lesson Introduction

_____ Cross-Country Planning Exercise

COMPLETION STANDARDS:

At the completion of this lesson, the student will be able to plan a cross-country flight and determine the suitability of proceeding with the flight based upon the conditions found during the planning process.

ADDITIONAL STUDY:

FAA-H-8083-3-AFH - Chapter 17
FAA-H-8083-25-PHAK - Chapters 2 & 9-17
Chart Supplements
VFR Sectional
VFR Terminal Area Chart
FAR
AIM - Chapters 1-9
Vol 4: Review Segments as Needed
Vol 5: Review Segments as Needed

Notes:

STAGE III
LESSON 50
DUAL - CROSS-COUNTRY DAY

DATE_____ ACFT ID_____ GRADE (Circle One) S U I

STUDENT NAME _____ STUDENT SIGNATURE_____

INSTRUCTOR # _____ INSTRUCTOR SIGNATURE_____

FLIGHT TIME: (1.5) _____ HOOD: (0.5) _____ APT IDs: _____/_____

DISCUSSION: (0.2) _____TOTAL IN COURSE: (D/S/G) _____/____/_____

LESSON OBJECTIVE:

During this lesson, the instructor will introduce the student to basic instrument flight maneuvers, VOR navigation, and dead reckoning during a day cross-country flight. Basic autopilot operations and disconnect procedures will be introduced (if equipped).

CONTENT:

Lesson Introduction

_____ Basic Attitude Instrument Flight - Straight and Level
_____ Basic Attitude Instrument Flight - Turns in Level Flight
_____ Basic Attitude Instrument Flight - Constant Airspeed Climbs and Descents

Lesson Introduction

_____ Basic Attitude Instrument Flight - Recovery from Unusual Flight Attitudes
_____ VOR Navigation
_____ Dead Reckoning
_____ Autopilot Operations (if equipped)

COMPLETION STANDARDS:

At the completion of this lesson, the student will have a basic knowledge of VOR navigation, dead reckoning procedures, and basic attitude instrument flight maneuvers. The student will have a basic understanding autopilot operations and disconnect procedures (if equipped). The student will be able to verify position within 3 nautical miles, maintain or roll out on the selected heading ±15°, and maintain or level off at the selected appropriate altitude ±200 feet.

ADDITIONAL STUDY:

FAA-H-8083-3-AFH - Chapters 3 & 4
FAA-H-8083-25-PHAK - Chapters 6 & 8
Private Pilot Airman Certification Standards
Vol 4: Segments 6 & 8
Vol 5: Segment 15

Notes:

STAGE III
LESSON 51
DUAL - CROSS-COUNTRY DAY

DATE_____ ACFT ID_____ GRADE (Circle One) S U I

STUDENT NAME _____ STUDENT SIGNATURE_____

INSTRUCTOR # _____ INSTRUCTOR SIGNATURE_____

FLIGHT TIME: (1.5) _____ HOOD: (0.5) _____ APT IDs: _____/_____

DISCUSSION: (0.2) _____TOTAL IN COURSE: (D/S/G) _____/____/_____

LESSON OBJECTIVE:

During this lesson, the student will be introduced to GPS navigation, ADF homing (if equipped), and operations at airports with control towers. The instructor will also review VOR navigation, dead reckoning, and pilotage procedures while performing a day cross-country. In addition, basic instrument maneuvers and autopilot operations (if equipped) will be reviewed.

CONTENT:

Lesson Review

_____ VOR Navigation
_____ Dead Reckoning
_____ Pilotage
_____ Basic Instrument Maneuvers
_____ Autopilot Operations (if equipped)

Lesson Introduction

_____ Airports with Control Towers
_____ ADF Homing (if equipped)
_____ GPS Navigation
_____ GPS Nearest Functions

COMPLETION STANDARDS:

At the completion of this lesson, the student will be able to home to an NDB (if ADF equipped) and use VORs and GPS for navigation during a cross-country. The student will also be familiar with dead reckoning procedures, operations at airports with control towers, as well as basic instrument maneuvers. The student will have a basic understanding autopilot operations and disconnect procedures (if equipped). The student will be able to verify position within 3 nautical miles, maintain or roll out on the selected heading ±15°, and maintain or level off at the selected appropriate altitude ±200 feet.

ADDITIONAL STUDY:

FAA-H-8083-25-PHAK - Chapter 16
AIM - Chapters 1-5
Private Pilot Airman Certification Standards
Vol 4: Segments 6, 8, 9, 10, 16, 17, & 19
Vol 5: Segments 1, 7, 15, & 16
Vol 6: Segment 3

Notes:

STAGE III
LESSON 52
SOLO - CROSS-COUNTRY DAY

DATE_____ ACFT ID_____ GRADE (Circle One) SP I

STUDENT NAME _____ STUDENT SIGNATURE_____

FLIGHT TIME: (2.0) _____ APT IDs: _____/_____ TWR FLD LDGs: (3) _____

DISCUSSION: ( ) _____ TOTAL IN COURSE: (D/S/G) _____/____/_____

LESSON OBJECTIVE:

During this lesson, the student will complete a solo cross-country day flight of 150 nautical miles, consisting of 3 legs with full stop landings at a minimum of 3 points, one leg of the flight being at least 50 nautical miles. In addition, 3 takeoffs and landings will be completed at a tower controlled airport.

CONTENT:

Lesson Review

_____ VOR Navigation
_____ Dead Reckoning
_____ Pilotage

Lesson Review

_____ Lost Procedures
_____ Planning for Alternates
_____ ATC Communications

COMPLETION STANDARDS

The student will perform a day cross-country that is at least 150 nautical miles, consisting of 3 legs with full stop landings at a minimum of 3 points, one leg of the flight being at least 50 nautical miles. The student will have flown to a towered field and have performed 3 takeoff and landings. **Note: At least 10 solo hours, including 5 solo cross-country hours, must be completed when following this curriculum under 14 CFR part 61. Repeat this lesson as necessary to attain the applicable requirements.**

ADDITIONAL STUDY:

FAA-H-8083-25-PHAK - Chapter 16
AIM - Chapters 1-5
Private Pilot Airman Certification Standards
Vol 4: Review Segments as Needed
Vol 5: Review Segments as Needed

Notes: _____

STAGE III
LESSON 53
DUAL - GROUND
NIGHT FLYING

DATE_____ GRADE (Circle One) S U I

STUDENT NAME _____ STUDENT SIGNATURE_____

INSTRUCTOR # _____ INSTRUCTOR SIGNATURE_____

DISCUSSION: (1.2) _____

TOTAL IN COURSE: (D/S/G) _____/____/_____

LESSON OBJECTIVE:

During this lesson, the student will be introduced to night flying concepts.

CONTENT:

Lesson Introduction

_____ Night Flying Overview
_____ The Eye
_____ Applicable FARs
_____ Night Illusions
_____ Night Vision
_____ Night Scanning

Lesson Introduction

_____ Aircraft Lighting
_____ Airport Lighting
_____ Pilot Equipment for Night Flight
_____ Chart Use at Night
_____ Night Flight Preparations
_____ Night Emergencies

COMPLETION STANDARDS:

At the completion of this lesson, the student will have a knowledge of basic night flying concepts.

ADDITIONAL STUDY:

FAA-H-8083-3-AFH - Chapter 10
FAA-H-8083-25-PHAK - Chapter 17
FAR
AIM - Chapters 2, 4, & 7
Vol 4: Segments 1-2

Notes: _____

_____

_____

_____

_____

STAGE III
LESSON 54
DUAL - LOCAL
NIGHT

DATE_____ ACFT ID_____ GRADE (Circle One) S U I

STUDENT NAME _____ STUDENT SIGNATURE_____

INSTRUCTOR # _____ INSTRUCTOR SIGNATURE_____

FLIGHT TIME: (1.0) _____ HOOD: (0.5) _____ NIGHT T/L's: (5) _____

DISCUSSION: (0.2) _____TOTAL IN COURSE: (D/S/G) _____/____/_____

LESSON OBJECTIVE:

During this lesson, the instructor will introduce the student to night flight operations and review basic instrument flight maneuvers. The student will also perform at least 5 takeoffs and landings at night.

CONTENT:

Lesson Review

_____ Basic Instrument Maneuvers

Lesson Introduction

_____ Night Flight Operations
_____ Night Takeoffs and Landings
_____ Go-Around / Rejected Landing at Night
_____ Night Emergency Procedures

COMPLETION STANDARDS:

At the completion of this lesson, the student will have a basic knowledge of instrument flight maneuvers and night flight operations. The student will maintain or roll out on the selected heading ±15° and maintain or level off at the selected appropriate altitude ±200 feet.

ADDITIONAL STUDY:

FAA-H-8083-3-AFH - Chapters 10 & 17
FAA-H-8083-25-PHAK - Chapter 17
FAR
AIM - Chapters 2, 4, & 7
Vol 4: Segments 1-2

Notes:

STAGE III
LESSON 55
DUAL - CROSS-COUNTRY NIGHT

DATE_____ ACFT ID_____ GRADE (Circle One) S U I

STUDENT NAME _____ STUDENT SIGNATURE_____

INSTRUCTOR # _____ INSTRUCTOR SIGNATURE_____

FLIGHT TIME: (2.0) _____ HOOD: (0.5) _____ APT IDs: _____/_____

DISCUSSION: (0.2) _____ NIGHT T/L's: (5) _____

TOTAL IN COURSE: (D/S/G) _____/____/_____

LESSON OBJECTIVE:

During this lesson, the student will review VOR and GPS Navigation, ADF homing (if equipped), dead reckoning, pilotage, basic instrument maneuvers, and autopilot operations (if equipped). The student will also perform at least 5 takeoffs and landings at night.

CONTENT:

Lesson Review

_____ Night Takeoffs & Landings
_____ VOR Navigation
_____ ADF Homing (if equipped)
_____ GPS Navigation
_____ Dead Reckoning

Lesson Review

_____ Pilotage
_____ Basic Instrument Maneuvers
_____ Night Emergency Procedures
_____ Autopilot Operations (if equipped)

COMPLETION STANDARDS:

The student should be able to navigate using VORs and GPS, home to an NDB (if ADF equipped), and use dead reckoning on a night cross-country flight of at least 100 NM. The student will have a basic understanding autopilot operations and disconnect procedures (if equipped). The student shall also perform at least 5 takeoffs and landings at night. The student will be able to verify position within 3 nautical miles, maintain or roll out on the selected heading ±15°, and maintain or level off at the selected appropriate altitude ±200 feet. **At the end of this lesson, the student must have completed the required 3.0 hours of dual flight instruction and 10 takeoffs and landings at night. The student must also have logged at least 3.0 hours of dual cross-country flight training en route to airports greater than 50 nautical miles from the airport where the student normally trains.**

ADDITIONAL STUDY:

FAA-H-8083-3-AFH - Chapters 10 & 17
FAA-H-8083-25-PHAK - Chapters 16 & 17
AIM - Chapters 1-5 & 7
Private Pilot Airman Certification Standards
Vol 4: Review Segments as Needed
Vol 5: Review Segments as Needed

Notes:

STAGE III
LESSON 56
DUAL - LOCAL

DATE_____ ACFT ID_____ GRADE (Circle One) S U I

STUDENT NAME _____ STUDENT SIGNATURE_____

INSTRUCTOR # _____ INSTRUCTOR SIGNATURE_____

FLIGHT TIME: (1.5) _____ HOOD: (0.5) _____

DISCUSSION: (0.2) _____ TOTAL IN COURSE: (D/S/G) _____/____/_____

LESSON OBJECTIVE:

During this lesson, the student will review flight maneuvers for the Private Pilot Practical Test.

CONTENT:

Lesson Review

_____ Private Pilot Airman Certification Standards

COMPLETION STANDARDS:

The student will perform all maneuvers to the Private Pilot Airman Certification Standards.

ADDITIONAL STUDY:

FAA-H-8083-3-AFH - Chapters 3, 5, 6, 7, 8, 9, & 17
FAA-H-8083-25-PHAK - Chapters 5 & 6
Private Pilot Airman Certification Standards

Notes: _____

_____

_____

_____

_____

STAGE III
LESSON 57
DUAL - GROUND
KNOWLEDGE TEST

DATE_____ GRADE (Circle One) S U I

STUDENT NAME _____ STUDENT SIGNATURE_____

INSTRUCTOR # _____ INSTRUCTOR SIGNATURE_____

DISCUSSION: (1.2) _____

TOTAL IN COURSE: (D/S/G) _____/____/_____

LESSON OBJECTIVE:

The objective of this lesson is to evaluate the students comprehension of the material presented in the Private Pilot Training Course Outline ground lessons.

CONTENT:

Lesson Review	Lesson Review
_____ Private Pilot Knowledge Test	_____ National Airspace System
_____ Pilot Qualifications	_____ Performance & Limitations
_____ Airworthiness Requirements	_____ Operation of Systems
_____ Weather Information	_____ Human Factors
_____ Cross-Country Flight Planning	_____ Night Preparation

COMPLETION STANDARDS:

In order to complete the ground portion of the Private Pilot Training Course, the student must score at least 70% on the Private Pilot Knowledge Test.

Notes:

STAGE III
LESSON 58
DUAL - LOCAL

DATE_____ ACFT ID_____ GRADE (Circle One) S U I

STUDENT NAME _____ STUDENT SIGNATURE_____

INSTRUCTOR # _____ INSTRUCTOR SIGNATURE_____

FLIGHT TIME: (1.5) _____ HOOD: (0.5) _____

DISCUSSION: (0.2) _____TOTAL IN COURSE: (D/S/G) _____/____/_____

LESSON OBJECTIVE:

During this lesson, the student will review flight maneuvers for the Private Pilot Practical Test.

CONTENT:

Lesson Review

_____ Private Pilot Airman Certification Standards

COMPLETION STANDARDS:

The student will perform all maneuvers at the Private Pilot Airman Certification Standards. The student shall also be prepared for the Private Pilot Test. **At the end of this lesson, the student must have completed the required 3.0 hours of flight instruction on control and maneuvering of the airplane solely by reference to instruments.**

ADDITIONAL STUDY:

FAA-H-8083-3-AFH - Chapters 1-10 & 17
FAA-H-8083-25-PHAK - Chapters 1-17
AIM - Chapters 1-9
Private Pilot Airman Certification Standards

Notes:

PRE-STAGE CHECK – TIME SUMMARY

This page is intended to be used by the student's flight instructor to summarize the times accumulated through this course of instruction and determine that the times are sufficient for the stage requirements. The check instructor should verify that these times are acceptable for completion of the stage.

DATE_____ STUDENT NAME _____ STUDENT SIGNATURE_____

INSTRUCTOR # _____ INSTRUCTOR SIGNATURE_____

STAGE TOTALS

FLIGHT TIME (DUAL): _____

FLIGHT TIME (SOLO): _____

FLIGHT TIME (DUAL CROSS-COUNTRY): _____

FLIGHT TIME (SOLO CROSS-COUNTRY): _____

FLIGHT TIME (NIGHT): _____

ATD/FTD/SIM: _____

INSTRUMENT: _____ (In flight only.)

GROUND/DISCUSSION: _____ (Be sure to include the Ground Lesson times.)

COURSE TOTALS

FLIGHT TIME (DUAL): _____

FLIGHT TIME (SOLO): _____

FLIGHT TIME (DUAL CROSS-COUNTRY): _____

FLIGHT TIME (SOLO CROSS-COUNTRY): _____

FLIGHT TIME (NIGHT): _____

ATD/FTD/SIM: _____

INSTRUMENT: _____ (In flight only.)

GROUND/DISCUSSION: _____ (Be sure to include the Ground Lesson times.)

STAGE III
LESSON 59
STAGE III CHECK

DATE_____ ACFT ID_____ GRADE (Circle One) S U I

STUDENT NAME _____ STUDENT SIGNATURE_____

INSTRUCTOR # _____ INSTRUCTOR SIGNATURE_____

FLIGHT TIME: (1.2) _____ HOOD: (0.3) _____

DISCUSSION: (1.5) _____TOTAL IN COURSE: (D/S/G) _____/____/_____

LESSON OBJECTIVE:

The student shall demonstrate the knowledge and skill of a Private Pilot.

CONTENT:

Lesson Review

Preflight Preparation
_____ Pilot Qualifications
_____ Airworthiness Requirements
_____ Weather Information
_____ Cross-Country Flight Planning
_____ National Airspace System
_____ Performance & Limitations
_____ Operation of Systems
_____ Human Factors

Night Operations
_____ Night Preparation

Preflight Procedures
_____ Preflight Inspection
_____ Flight Deck Management
_____ Engine Starting
_____ Taxiing
_____ Before Takeoff Check

Airport Operations
_____ Communications & Light Signals
_____ Traffic Patterns

Lesson Review

Takeoffs, Landings & Go-Arounds
_____ Normal Takeoff & Climb
_____ Normal Approach & Landing
_____ Soft-Field Takeoff & Climb
_____ Soft-Field Approach & Landing
_____ Short-Field Takeoff & Maximum Performance Climb
_____ Short-Field Approach & Landing
_____ Forward Slip to a Landing
_____ Go-Around / Rejected Landing

Performance & Ground Reference Maneuvers
_____ Steep Turns
_____ Rectangular Course
_____ S-Turns
_____ Turns around a Point

Slow Flight & Stalls
_____ Maneuvering during Slow Flight
_____ Power-Off Stalls
_____ Power-On Stalls
_____ Spin Awareness

Continued On Next Page

Notes: _____

_____

_____

_____

_____

Lesson Review

Basic Instrument Maneuvers
_____ Straight & Level Flight
_____ Constant Airspeed Climbs
_____ Constant Airspeed Descents
_____ Turns to Headings
_____ Recovery from Unusual Flight Attitudes
_____ Radio Communications, Navigation Systems/Facilities, & Radar Services

Navigation
_____ Pilotage & Dead Reckoning
_____ Navigation Systems & Radar Services
_____ Diversion
_____ Lost Procedures

Lesson Review

Emergency Operations
_____ Emergency Descents
_____ Emergency Approach & Landing
_____ Systems & Equipment Malfunctions
_____ Emergency Equipment & Survival Gear

Postflight Procedures
_____ After Landing, Parking, & Securing

COMPLETION STANDARDS:

The stage check will be completed when the student performs all required maneuvers and tasks to the Private Pilot Airman Certification Standards. Also, the instructor and student will review the 14 CFR part 61 or part 141 requirements, as applicable, for the Private Pilot Certificate and determine that the student has met all of them. After the review of the 14 CFR part 61/141 requirements is complete, the Private Pilot flight check should be scheduled.

Notes:

RECORD OF EXTRA TRAINING

DATE_____ ACFT ID_____ GRADE (Circle One) S U I

STUDENT NAME _____ STUDENT SIGNATURE_____

INSTRUCTOR # _____ INSTRUCTOR SIGNATURE_____

FLIGHT TIME: _____ DISCUSSION: _____

TOTAL IN COURSE: (D/S/G) _____/____/_____

CONTENT:

_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

RECORD OF EXTRA TRAINING

DATE_____ ACFT ID_____ GRADE (Circle One) S U I

STUDENT NAME _____ STUDENT SIGNATURE_____

INSTRUCTOR # _____ INSTRUCTOR SIGNATURE_____

FLIGHT TIME: _____ DISCUSSION: _____

TOTAL IN COURSE: (D/S/G) _____/____/_____

CONTENT:

_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

RECORD OF EXTRA TRAINING

DATE_____ ACFT ID_____ GRADE (Circle One) S U I

STUDENT NAME _____ STUDENT SIGNATURE_____

INSTRUCTOR # _____ INSTRUCTOR SIGNATURE_____

FLIGHT TIME: _____ DISCUSSION: _____

TOTAL IN COURSE: (D/S/G) _____/____/_____

CONTENT:

_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

RECORD OF EXTRA TRAINING

DATE_____ ACFT ID_____ GRADE (Circle One) S U I

STUDENT NAME _____ STUDENT SIGNATURE_____

INSTRUCTOR # _____ INSTRUCTOR SIGNATURE_____

FLIGHT TIME: _____ DISCUSSION: _____

TOTAL IN COURSE: (D/S/G) _____/____/_____

CONTENT:

_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

RECORD OF EXTRA TRAINING

DATE_____ ACFT ID_____ GRADE (Circle One) S U I

STUDENT NAME _____ STUDENT SIGNATURE_____

INSTRUCTOR # _____ INSTRUCTOR SIGNATURE_____

FLIGHT TIME: _____ DISCUSSION: _____

TOTAL IN COURSE: (D/S/G) _____/____/_____

CONTENT:

_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

RECORD OF EXTRA TRAINING

DATE_____ ACFT ID_____ GRADE (Circle One) S U I

STUDENT NAME _____ STUDENT SIGNATURE_____

INSTRUCTOR # _____ INSTRUCTOR SIGNATURE_____

FLIGHT TIME: _____ DISCUSSION: _____

TOTAL IN COURSE: (D/S/G) _____/____/_____

CONTENT:

_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
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_____	_____	_____	_____
_____	_____	_____	_____

RECORD OF EXTRA TRAINING

DATE_____ ACFT ID_____ GRADE (Circle One) S U I

STUDENT NAME _____ STUDENT SIGNATURE_____

INSTRUCTOR # _____ INSTRUCTOR SIGNATURE_____

FLIGHT TIME: _____ DISCUSSION: _____

TOTAL IN COURSE: (D/S/G) _____/____/_____

CONTENT:

_____	_____	_____	_____
_____	_____	_____	_____
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_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
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